## Comments of the Independent Peer-Review Team for the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region

15 November 2007

Responses developed by the US Army Engineer Research and Development Center in cooperation with the Atlantic and Gulf Coastal Plain Working Group are given in Column F. The Corps of Engineers thanks all volunteer reviewers for their helpful and insightful comments.

Initials	Ch	Pg	Par	Comment	Responses
	- · ·	- 9			We will be as consistent as possible. However,
					sometimes we mean "vegetation that occurs in a
				Sometimes you say hydrophytic vegetation and	wetland" and sometimes we mean a plant community
				sometimes wetland vegetation. Please choose one	that has passed a hydrophytic vegetation indicator. They
JG			General	and be consistent throughout.	are not necessarily the same.
				Much of the forest description on pages 5 – 7 deal	This was intended. Pages 5-7 describe the regional
				with upland landscapes. They should instead focus	setting where the supplement is to be applied. Pages 8-
TR	1		General	on wetlands.	10 describe wetlands within that region.
				It would be useful to list the HGM classes and then	
				discuss the various types (common names) within	The section is intended as a brief introduction to the
					wetlands in the region and is not intended to be
				fringe wetlands that are very common in many	encyclopedic. However, we believe the introduction is
				states. All this section is interesting but not that	useful for beginners and those new to the region. We
				useful and could be omitted in order to shorten the	use HGM terminology, where appropriate, throughout the
TR				document.	document.
				It should be made very clear how much the	
1 450				supplement will replace the 1987 Manual; more	The only replaced sections are clearly listed in Table 1.
LABG	1	1	General	emphasis is needed.	Both documents are needed to delineate wetlands.
				The reference to animal communities is not relevant to wetland delineation. The term "other factors" is	As the statement says, animals do affect both the
					identification and functioning of wetlands. See NRC
				also too nebulous. Focus should be placed on the major/relevant factors – climate, hydrology, geology,	(1995) and hydrology indicators B13 and C8. In any
LABG	1	1	2	soils and plant communities.	case, this is intended as a general statement and is not confusing.
LABG		'		solis and plant communities.	ERDC editors will review the document before
LABG	1	2	2	remove dash (-) from wetland-delineation	publication.
LABO	'	2	6	keep paragraph six	We do not understand the comment.
				, , , ,	
				the applicable area "extends northward to the	
				present-day Illinois state line". However, the map in	
LABG	1	3	1	Figure 1 shows boundaries extending into Illinois.	We will revise the wording.
					Only MLRAs that are not within the region are missing
					from the list. All MLRAs within a listed LRR are within
LABG	1	3	2	some of the MLRAs are missing from the list.	the region unless otherwise noted.
				line 5 – "these Regional Supplements" is referencing	
				all of the regional supplements. The earlier	
				paragraphs focused on the A&GCP region and this	This entire paragraph talks about transitions between
				paragraph switches to discussion of multiple regional	regions. Therefore, more than one Regional
LADO	,	_	_	supplements. The focus of this paragraph needs to	Supplement would be involved. The paragraph seems
LABG	1	3	3	be clear.  2 <sup>nd</sup> sentence – add the word "wetland" in front of	clear.
LABG	1	4	fi~	indicators.	We will make the recommended change.
LABG	- 1	4	fig	what is an important tree? (value judgement) Why	will make the recommended change.
LABG	1	5	4	are the particular species listed?	We will change the word to "common".
LABG	1	5	5	missing a parenthesis on (Service 2006a)	We will make the recommended change.
	<u> </u>			Control 2000)	The state and to the state of t
					Characteristics that were important in separating this
					region are identified on pages 3 and 5. Similar
					statements appear in each Regional Supplement. For
				It would be nice to have an explanation on the basis	brevity, we have not repeated all the characteristics of
LABG	1	Ger	neral	of how this region was separated from the others.	adjoining regions in each supplement.
				Emphasis should be placed on the differences of the	The general descriptions of each subregion are sufficient
LABG	1	Ger	neral	sub-regions within this regional supplement.	for users to apply wetland indicators accurately.
				Can examples of broad transition zones (BTZ) be	We cannot predict the characteristics of all possible
				included/described so a delineator knows when they	transitional sites. Delineators should use their judgment
					in selecting the appropriate supplement. They have the
				is acceptable to use the regional supplement from	option of applying both supplements and comparing the
		_		an adjacent region for transitional areas and how to	results (we will clarify this). We do not anticipate
LABG	1	Ger	neral	document the rationale would be useful.	differences in the outcomes in transitional areas.

				The genus of several plants is not consistently	
				abbreviated when it has been used previously; i.e.,	We have used abbreviations only where the intended
LABG	1	Ger	neral	Pinus virginiana to P. virginiana.	genus is clear. If in doubt, we spelled it out.
TR	1	8	1	Need references in first paragraph	We will make the recommended change.
TR		9	3	Is beakrush a grass?	It is a sedge. We will revise the wording.
				The wetland descriptions are very general. This	January Company of the Company of th
				section could be shortened by just listing the wetland	
				types (and what classification they follow – if there	This is intended to be a brief introduction to wetlands in
				really is one) and highlighting those wetlands that	the region for new delineators. It attempts to describe
				are unique to this region. This section could also	generally most wetlands in the region and not just types
				include a list of references/field guides where	"unique to this region." Reference to wetland
				someone could find out more about the wetland	classification is not required to perform reliable wetland
				types. However, a reference list may become too	delineations. A list of other references on wetlands is
LABG	1	8 & 9		lengthy	beyond the needs of this supplement.
					This section focuses on factors affecting the vegetation
				Much of this section (page 11) might be better in the	of the region, particularly its wetlands. It seems
TR	2	11	General	main introductory section (i.e., page 5).	appropriate in the vegetation chapter.
					In this general statement of sampling alternatives, the
					term describes a wandering survey of the vegetation unit
					allowing the user to estimate average coverage of plant
					species and not be constrained by a fixed plot. Wetland
					delineation does not require an ecological study,
					particularly in straightforward cases. The supplement
				The recommendation on page 12 for estimating	allows delineators to use simple, practical approaches to
				percent cover from a meandering survey probably	vegetation sampling, when appropriate, to reduce effort
				needs clarification and more guidance. Offering	and increase efficiency. We are reluctant to provide a
				general guidance is ok for experienced delineators,	detailed procedure for what is intended to be an informal
TR	2	12	6	but many users will not understand this.	method.
				There is no added value provided by including the	
				Introduction. The information is limited and	
				incomplete and does not speak directly to practical	
				indicators of Hydrophytic Vegetation. It is more of a	This supplement follows the format established in
	_	_		description of landscape and the influence of	previous supplements, which includes a brief introduction
LABG	2	Ger	neral	past/present biotic factors.	to the major influences on vegetation in the region.
					These discussions provide general background to the
					local flora and development of the vegetation in the
LABG	2	Cor	orol	Remove percarephe two through four	region. Many commenters have appreciated these brief ecological statements.
LABG		Gei	neral	Remove paragraphs two through four.  Add sentence from paragraph five to first paragraph	ecological statements.
				"Hydrophytic vegetation decisions are based on	
				the wetland indicator status (Reed 1988, or current	
				approved list) of species that make up the plant	We disagree; that topic is not similar to the introductory
LABG		Ger	neral	community."	papragraph and does not fit.
2,120			TOTAL	community.	papragraph and door not no.
				Explanation that FACW, FAC and FACU are in both	We disagree. Some commenters have concerns about
				wetlands and uplands should be basic information	the use of the FAC category. This basic statement
				and not need to be restated. However, a statement	reiterates that a hydrophytic vegetation decision includes
				could be made that some species have a broad	FAC, FACW, and OBLs. Many of the simple statements
				tolerance to growing under a variety of moisture	that are made in the supplement are intended to clarify
LABG		Ger	neral	levels.	specific issues that have arisen.
					-
					This statement foreshadows the discussion later in the
					supplement that FACU species found on undrained
				The statement "some wetland communities may be	hydric soils and with hydrology indicators are acting as
				dominated primarily by FACU species" is misleading.	hydrophytes. We then direct the user to Chapter 5
				If a wetland is dominated by FACU species, it likely	where we present methods to use in these cases. By
				does not satisfy the hydrophytic vegetation factor,	definition, FACU species occur in wetlands with 1-33%
				and therefore, it is not a wetland. However, there	frequency. Therefore, it is not surprising that, in unusual
				are seasonal circumstances (shifts from wet spring	situations, some wetlands will be dominated by FACU
				to dry summer) that may allow the establishment of	species. Working groups have agreed that the problem
				more non-wetland (and FACU) species. This	cannot be resolved using different indicator statuses.
				situation should be treated as an anomaly and be	Therefore, the supplement includes special procedures
LABG		Ger	neral	discussed in Chapter 5 not in the introduction.	for these cases.
LABG	2	6		keep	We do not understand the comment.
LABG	2	12	6	What is a "meandering survey"?	See the response in row 34 of this spreadsheet.
				- '	

2	12		When is it appropriate to use other vegetation sampling approaches and how should their use be rationalized and documented?	That depends on the user's background and the complexity of the site. Approaches to vegetation sampling are almost infinite. We have suggested approaches that we think are simple and widely applicable, but must allow for other valid methods. The National Technical Committee for Wetland Vegetation (NTCWV) is beginning an effort to write a vegetation sampling booklet to support the supplements. That booklet will consider other methods. For now, the user is free to apply other methods, as long as he/she provides adequate justification.
2	12	5	Why was 5 percent plant cover chosen for an area to be considered vegetated? Is it considered vegetated if no plants are directly rooted in an area, but there is tree cover?	The 5% threshold is arbitrary but was adopted by various working groups as a minimum for an area to be vegetated. In wet habitats, this provides a consistent cutoff between wetlands and other waters. Overhanging woody plants do not need to be rooted in the area if they are growing under the same soil and hydrologic conditions.
2	13	General	Need an example of when one plot is enough and when several should be established.	The need for additional plots is a matter of opinion. The Corps Manual only asks that the sample be "representative". If this cannot be accomplished with one plot, then the user has the option to increase the sample size. We cannot provide one example that would illustrate the universe of possible site characteristics and sampling scenarios. However, the NTCWV is preparing a literature review of sampling approaches and will address this issue.
2	13		Why not recommend square plots given they are much easier to lay out?	This question will be evaluated by the NTCWV in preparing a booklet on vegetation sampling in a wetland delineation.
2	13	2	The basal area prism is not appropriate for use in this context. It is designed for sampling forest stands and accuracy depends on large sample sizes. This error has been around for 15 or more years.	The forestry literature (e.g., Palley and O'Reagan, For. Sci. 7: 282-293, 1961; Kulow, J. For. 64: 469-474, 1966; Whyte and Tennent, N.Z. J. For. 20(1): 134-147, 1975) attests to the accuracy and precision of basal-area measurements made with a prism, although the reviewer is correct that the technique typically involves a number of measurements within a stand. The literature also points out that a fixed plot is more efficient for determining stocking rates (stem densities). So, based on published papers like these, some working groups have decided to allow the use of a prism as a quick and efficient method of sampling the tree layer.  We disagree because "plot" describes an area being
2	13	all	Change the term 'plot' to 'sample point'.	sampled and "sample point" could be confused with the points used in point-intercept sampling methods. The approaches are entirely different. For general users, the term plot is more direct and meaningful.
2	13	2	It is suggested to eliminate collecting abundance data for the tree stratum by estimating basal area, especially since this is a plotless tool and cannot be used in the prevalence index.	Basal area is a form of abundance data that can be used in the 50/20 rule and dominance test, and the Corps Manual recommends basal area for trees. Again, since no comprehensive assessment of sampling approaches in wetland delineation has ever been done, the NTCWV will review the literature and develop a booklet of valid sampling methods.
2 2	<u>13</u> 13		Averaging data across a series of subplots should not be recommended. This process could lead to the wrong wetland determination result (either calling an area dry that is wet and vice versa), especially if there is a mosaic of wetlands/uplands.  Are there any references newer than 1999?	These subplots are sampling a recognized vegetation unit that should be uniform in soil and hydrologic conditions. It should not be a mosaic of wetlands and non-wetlands (See Chapter 5). The supplement gives general advice but cannot predict what situations will arise in the field. We have to assume that the delineator has some level of training and experience in applying these methods.  Tiner's reference is the most recent and applicable.
	2 2 2	2 13 2 13 2 13 2 13 2 13	2 13 General 2 13 2 2 13 all 2 13 2	sampling approaches and how should their use be rationalized and documented?  Why was 5 percent plant cover chosen for an area to be considered vegetated? Is it considered vegetated? Is it considered vegetated in op plants are directly rooted in an area, but there is tree cover?  Need an example of when one plot is enough and when several should be established.  Why not recommend square plots given they are much easier to lay out?  The basal area prism is not appropriate for use in this context. It is designed for sampling forest stands and accuracy depends on large sample sizes. This error has been around for 15 or more years.  The basal area prism is not appropriate for use in this context. It is designed for sampling forest stands and accuracy depends on large sample sizes. This error has been around for 15 or more years.  The basal area prism is not appropriate for use in this context. It is designed for sampling forest stands and accuracy depends on large sample sizes. This error has been around for 15 or more years.  The basal area prism is not appropriate for use in this context. It is designed for sampling forest stands and accuracy depends on large sample sizes. This error has been around for 15 or more years.  The basal area prism is not appropriate for use in this context. It is designed for sampling forest stands and accuracy depends on large sample sizes. This error has been around for 15 or more years.  All Change the term 'plot' to 'sample point'.

re have no immediate community was/is d species abundance, ements follow this V is looking into these mmend other approaches
Advisory Team have stratum definitions used s been revised to purpose of combining a ndant one is to prevented as dominants if they
heir strata. to this concern. Other
th forms or life forms. wth form terms is unique nce and "business
ators in this region. In ng no strata, 4 strata, or differences in the lation. Therefore, the eferred approach of the who prefer a 4-stratum the one from the nearest but the practice of ore abundant ones es from being selected
y representatives of their
ratum or in the entire The statement is intended ity from being declared has not yet begun to
um and not counted in at plants do not need to they are growing under nditions. If they are not,
t sampling for a wetland nience and opinion. The bughly. Strata have ne Corps Manual for 20 oup and the National and simplified the supplement.

LABG	2	14		Shrub stratum – Consists of all shrub species.	See the previous response.
				·	
LABG	2	14		Herb stratum – consists of all herbaceous species.  Regeneration (Seedling/Sapling) – consists of all	See the previous response.
LABG	2	14		tree species less than 3 inches DBH	See the previous response.
				No heights for the stratum are needed. Even if a	
LABG	2	14		stratum has less than 5 percent vegetative cover it is still represented.	See the previous response.
LABG	2	16		Removal of the (-) modifier for FAC will likely result in more hydrophytic vegetation determinations. Also, if subsequent versions of the National List of Plants that occur in Wetlands keeps the (+) and (-) modifiers, it would be inconsistent to remove them from hydrophytic vegetation determinations.	In the future as the plant list is updated, +/- modifiers will only be used if there is ecological data to support the rating. To date, these modifiers represent many committee voting compromises and say little about a plant's wetland affinities. Field testing of the supplement has indicated that wetland boundaries on very few sites will change as a result of dropping +/- modifiers. We hope to learn more about the effects of this change during the 1-year interim implementation of this supplement.
				I think it is a good idea to simplify the indicator status of plants and eliminate the +/- modifiers. Having said that, they probably should continue to be used until several "problem" species are evaluated very carefully. For example, fescue is a FAC- plant and changing its status to FAC will have a substantial impact in much of the mid-South. While I think the change in status of many areas from non-wetland to wetland is warranted, it will be controversial. The group identified many other similar species within the	
TR	2	15		region	See the previous response.
LABG	2	15		Is callery pear ( <i>Pyrus calleryana</i> ) to be an example of a 'wetland' species that is not listed by Reed (1988) or just a species that is not necessarily an UPL plant that is not listed? At least in Virginia, callery pear is not a wetland species.  Indicator 1: Dominance test I would continue to recommend converting absolute cover to relative cover for ease of understanding when using the 50/20 rule. If PI's are to be calculated, you always	This species is an example of a plant that got missed in the 1988 plant list. It will be considered in the current update. Until then, it is still unlisted. The supplement does not change indicator status ratings.  It takes added steps to "relativize" plant abundance data. The added steps are unnecessary if people would simply work directly with the absolute cover values in both the dominance test and prevalence index. This also avoids confusion about what sort of data is appropriate for
TR	2	16		can go back to the raw data.	which indicator.
		4-	user	suggested rewording: Use the "50/20 rule" described below to select dominant species from each stratum of the community. Once a species is selected as a dominant, its cover value is not used in the dominance test; each dominant species is treated equally. Species that are dominant in two or more strata should be counted two or more times in the dominance test. List the dominant species from all the strata and apply the dominance test using all of the dominant species. For example, a plant community with seven dominant species across all strata would need at least four species that are OBL, FACW, or FAC to be considered hydrophytic by this	This wording is nearly identical to the original. We see
LABG	2	17	notes	indicator.  Procedures for Selecting Dominant Species by the	no reason for the change.
LABG	2	17		50/20 Rule: - the most abundant species is not the same as those species with the greatest percent cover. It needs to be clear how the strata data is being collected (percent aerial cover or abundance). If all data is to be collected as a percent aerial cover, I suggest removing "most abundant species" from the first sentence, and paragraph 2, second sentence.	As discussed on page 13, percent areal cover is one potential measure of vegetation abundance, and is the preferred measure in this supplement.
LABG	2	18		It is very unclear how dominance is determined and whether absolute vs relative cover is being used in the 50/20 calculations. Table 2-2 lists "absolute percent cover", but it is really converted to relative cover.	We disagree. In Table 2-2, no values are converted to relative. All calculations are based on absolute cover. This is also clear in the procedure starting on page 17.

LABG	2	all		General comment – can guidance be given on what to do if the time of year precludes species identification (especially when time constraints do not allow revisiting the site when the species could be positively identified)?	The 3-factor approach requires an evaluation of the vegetation. A delineator may make a preliminary wetland determination when the vegetation cannot be identified (for example, during winter), but must return at an appropriate time to verify the preliminary determination or must use procedures given in Chapter 5. Of course, occasionally district regulatory offices must make decisions based on less than complete information.
				requires plant ID expertise beyond what most delineators have. Most cases I can think of where soils/hydrology indicators are present and the plants fail are altered areas in which pasture grasses or invasives dominate. They should be treated as disturbed areas and compared to reference sites. Having another plant test probably is not	This comment contains at least two different issues that are not related. The prevalence index (PI) is a more conservative measure of hydrophytic vegetation than the dominance test, but is useful in identifying hydrophytic plant communities that are overlooked by only considering dominant species. It is true that more plant expertise is needed to apply the PI. The effects of planted or escaped species is addressed separately in Chapter 5 and is independent of the hydrophytic
TR LG	3	20		appropriate.  My biggest comment is that the soils section should not contain any information that is already contained in Ver. 6.0 of the NTCHS Field Indicators. There is no reason to keep updating two technical documents at the same time. Just refer to the other from this one.	We prefer to have this information all in one place, particularly when the User Notes are tailored for this region. This follows the pattern established in previous supplements. No change is necessary.
JG	3	23	1	Add - By definition in Hydric Soil Technical Note 13, hydric soils must meet one of the following, documented on the USDA-NRCS Hydric Soils web site(http://soils.usda.gov/use/hydric): 1. Have a hydric soil indicator or, 2. Meet hydric soil criteria 3 or 4 or, 3. By data meet the Hydric Soil Technical Standard (Hydric Soil Technical Note 11).	This checklist is not necessary for the purposes of this supplement. Furthermore, the supplement accepts other evidence that a soil is hydric in the context of a 3-factor wetland test.
LABG	3	22		in the hydric soil definition – what is "long enough"	The National Technical Committee for Hydric Soils (NTCHS) is responsible for the hydric soil definition. Any suggestions for changes should be directed to the committee.
LABG	3	22		It would be nice if this was explained and ideas were provided on how to determine if "long enough" was met. Delineators are more likely to use the Supplement instead of referring back to the 1987 Manual, therefore the more background information that can be included in the Supplement, the less chance for misinterpretation.	The hydric soil definition says "long enough during the growing season to develop anaerobic conditions in the upper part." That is sufficient for the purposes of this supplement. Most soils that meet this definition will exhibit hydric soil indicators, thus demonstrating that wetness episodes were "long enough".
LABG	3	22		could any of the indicators go away? Although this is not likely, a sentence should be included stating that they may be revised and new ones may be added as more testing is done. Could any of the other indicators currently not included in this supplement be used?	The hydric soil indicators in the Supplement are a subset of the NTCHS Field Indicators of Hydric Soils in the United States. Wording of the indicators and the applicable regions are subject to change (see paragraph 2 on page 22). Proposals for changes should be submitted to the NTCHS.
LABG	3	22	4	is the absence of indicators implying a man-induced or "other" atypical/problem area situation? More clarity should be provided that the absence of indicators may be due to recent, but current condition change in hydrology, so indicators will form over time OR that the indicators do not necessarily pertain to the wettest, interior of wetlands.	Generally, the absence of indicators implies that the soil is not hydric. However, in atypical or problematic situations, other evidence is used to make the hydric soil determination (see Chapter 5). The concern about the possible absence of indicators in the wettest, interior portions of wetlands is addressed on page 27.
LABG	3	23	1	last sentence – provide examples of what is meant by "features".	The sentence refers to soil morphologic features (e.g., organic accumulations). We will revise the wording.
LABG	3	23	1	It should be made clear that the "saturation/inundation" needs to be permanent for organic matter to significantly accumulate. It would be helpful to include a simple explanation on the correlation between organic carbon (OC) and organic matter (OM), and therefore, why this section refers to OC and not OM.	The first statement is not always true. Organic matter may accumulate in areas that are not permanently saturated/inundated, and may even accumulate in some relatively dry situations (e.g., Folists). We will clarify the connection between organic carbon and organic matter.

				Organic Matter Accumulation: The section on	
				texturing soil high in organic matter (page 23) might	
TD	•	00		be better located in the Observe and Document	This section is located in the same place in all previous
TR	3	23	General	section on page 26.	supplements. For consistency, we prefer this location.
					We wish to provide wetland delineators with basic tools
				L	needed to make reliable hydric soil interpretations. The
				I probably would delete Tables 3.1 and 3.2. Very	identification of muck, mucky peat, and peat is one such
				few typical delineators have the ability to do this and	tool. If in doubt, the user should consult a soil scientist,
				soil scientists who might get involved already should	but the basic procedure is simple enough for most
TR	3	23	Tables	know how or at least where to find out how.	purposes.
					The final document will conform to ERDC publication
LABG	3	23	Table	center the cells under Horizon Descriptor heading	style.
LABG	3	23	5	reference the L. von Post method.	See the cited ASTM standard.
				What about Manganese? It needs to be discussed	
				because it is a redox concentration and it goes into	
JG	3	24	1	solution before iron.	We will make the recommended change.
				Iron Reduction, Translocation, and	
				<b>Accumulation:</b> Given the importance of F8 in many	
				areas, there probably needs to be a section on	
TR	3	24	1	manganese similar to the one on iron on page 24	We will make the recommended change.
				I disagree with the statement on page 24 that a	
				drained soil is still hydric if it would be in its	
				undisturbed state. This is a soil science concept	
				and we should not let terminology override a	
				straightforward delineation approach. We are	
				l -	
				concerned about point in time determinations. A soil is either hydric or not at the point in time that we are	This is a basic concept associated with the definition of a
					This is a basic concept associated with the definition of a
TD		0.4	0	conducting a delineation. Saying otherwise will just	hydric soil. The supplement follows NTCHS definitions
TR		24	3	lead to confusion.	and concepts.
					T
				I shiply ship Operations are still as the collection of the second state of the second	This format has been adopted in all previous
TD		0.4	•	I think this Cautions section should follow the	supplements and, to avoid confusion among users who
TR		24	3	Procedures section.	work in more than one region, we wish to be consistent.
					For many indicators, it is necessary to know if the soil is
				what is added value of this table for wetland	muck, mucky peat, or peat. This table is intended to
				delineation? I suggest removing it since it just adds	provide a field method to assist in the determination of
LABG	3	24	Table	more confusion.	organic decomposition.
				Sulfate Reduction – The statement about Sulfur	
				being one of the last elements to reduce could be	
				put in context with the other elements that become	
				reduced. Suggest adding a table similar to Table 6-	It is not the intent of the supplement to teach basic
				2 (page 169) of Wetlands, third edition, Mitsch and	wetland concepts. Mitsch and Gosselink's text is indeed
LABG	3	24	2	Gosselink.	a good general reference for new delineators.
				what is the difference between contemporary and	No difference. We use both terms in their common,
LABG	3	24	4	recent? Clarify/define intended time frames.	dictionary meanings. They are not technical terms.
				Considerable editing/clean-up needed in this section.	We will check this section and revise as needed.
				I would recommend taking photos instead of	Opinions differ on the need for photos. We prefer to let
TR	3	25	General	considering it (page 26).	the user decide.
					We agree that some of these suggestions are not
				a lot of this would be better in an introduction on	specific to soils but the focus here is on hydric soil
				General Field Procedures for documenting the site	interpretations. For this reason, and for consistency
LABG	3	25	all	and where to look for wetlands, not specific to soils.	across different supplements, we prefer to leave it here.
1					These suggestions focus on what can be observed at
					the time of the visit. Seasonal cautions and
					considerations are described in User Notes for specific
				Hydrology – caution should be used as to	indicators (particularly hydrology indicators), in Chapter
LABG	3	25	5	differences in seasonal water levels	5, and elsewhere.
	-	-		Slope Shape – second sentence seems redundant	
LABG	3	25	6	to sentences in <i>Slope</i>	We will make the recommended change.
				· ·	
				taking photographs of the overall site would be	"General field procedures" are given in the Corps
LABG	3	26		better stated in a General Field Procedures section.	Manual. Eventually the Manual will also be revised.
LABG	3	26	6	Is the use of chroma 2+ widely accepted?	Yes. No change is necessary.
LABG	3	26	6	move last sentence to the end of paragraph 3	We will make the recommended change.
	-		-	The following two sentences: "The shape of the local	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
				landform can greatly affect the movement of water	
				through the landscape. Significant changes in parent	This postion is intended to give hashers and information
				material or lithologic discontinuities in the soil can	This section is intended to give background information
				affect the hydrologic properties of the soil", are better	that would help one to understand and document the
				suited for background information and not necessary	soils on the site. Therefore, the information is relevant
LABG	3	26	7	here.	here.

					The most current version the NTCHS Field Indicators of Hydric Soils of the United States	
					(USDA Natural Resources Conservation Service 2006b) contains the background information and	The recommendation is not clear. Presentation of the
					precise set of hydric soil indicators approved for use in this Region. The Appendix to this Supplement	indicators and field procedures to identify them is the purpose of Chapter 3. We prefer to have the indicators
	JG	3	27		should contains detailed guides and procedures for field identification of the indicators.	and other information all in one place, particularly when the User Notes are tailored for this region.
		_			I suggest <b>strongly</b> that an effort be made to	We understand the concern. However, the supplement
					combine as many indicators as possible. It seems as if every possible soils condition ever observed in	incorporates the NTCHS field indicators. Any proposals for changes to the indicators should be directed to
	TR	3	27	General	a wetland has been made into an indicator.	NTCHS.
					As a general comment on this section, the more soil taxonomy terms/jargon that can be removed, the	We have attempted to reduce the amount of technical jargon in the supplement. For example, soil taxonomic
					better. Our task in delineation is to determine if the soil is wet enough to become anoxic for a long time	terms (e.g., Mollisol, Entisol) are rarely used, and then only if explained. Hydric soil indicators incorporate
					and eliminated non-adapted plants. Having too much soil science language in the process tends to	standard terminology that is defined in the glossary or in other cited sources. It is not possible to do this work
	TR	3	27	General	be confusing.	without some understanding of technical terms.
					All Soils - Is there ever a case where nodules and	Yes, but not for all soils and not in this region. However, due to the long use of concretions in the Corps Manual, it
	TR	3	27	5	concretions are considered redox concentrations as suggested on page 27?	was felt useful to include this statement in the Supplement. No change is recommended.
	LABG	3	27	1	remove dash (-) from wetland-delineation	The final document will conform to ERDC publication style.
					The User Notes have the same sentence(s) (or close variation(s)) in several of the individual indicators.	
					(i.e., See the glossary of Field Indicators for definitions of) These could be removed and	
					placed in one section prior to discussion of the individual indicators. I also suggest removing	These statements are part of NTCHS' User Notes for these indicators and help to clarify that there are precise
					reference to the percent organic carbon for the different indicators. The different ranges 12-18, 5-	definitions of organic matter content for these indicators.  They are useful if laboratory analysis is ever needed to
	LABG	3	27		18, 5-12, 7-14, 5-14 are confusing and the percent organic carbon is not necessary for hydric soil determination.	resolve a difference of opinion. However, we agree that they are not needed for most field-oriented investigations.
		J		- Contract		Additions to NTCHS' User Notes were provided by the working group based on experience in the region. For
						common indicators, the working group added information about their locations relative to wetland boundaries. If
					There is not consistent mention of whether the	locations were not mentioned, it was either because the working group had no opinion or the indicator was
	LABG	3	27	General		equally likely to be found at the edges or interiors of wetlands.
	JG	3	28	2	I don't know of any Folists in this region. Zero. Delete that comment	Folists occur in LRR U. No change is necessary.
		J			Delete this picture or add a depth tape and comment in the caption on the actual thickness of organic	,
	JG	3	29	figure	surface shown in this picture. I made one if you need it.	We will reword the caption.
		J			A2 - Isn't there an upper limit to histic epipedon	Yes, there is an upper limit that can vary depending on several factors (see <i>Soil Taxonomy</i> ). We are not sure
					thickness? The wording about artificial drainage being required is confusing (see general comment	what is confusing about artificial drainage. A histic epipedon that is artificially drained is still a histic
_	TR	3	29	General		epipedon.
L	TR	3	30	General	A3 - Could this not be combined with A2? A4 - This indicator tends to be confusing because	No, they are different. In any case, this recommendation should be directed to the NTCHS.
					people commonly smell other "earthy" compounds	The wording of the indicator and its application to this region are decisions of the NTCHS. Proposals for
					and confuse them with hydrogen sulfide. I've observed this dozens of times. Does it ever occur at a wetland edge? Does it ever occur without another	changes in the indicators should be directed to NTCHS by following the procedure described in "To Comment on
	TR	3	31	General	indicator also being present? If not, this one might be better omitted.	the Indicators" in the Field Indicators of Hydric Soils in the United States.
ŀ	110	J	JI	Serieral	po poder offided.	The dictionary definition of "several" is more than two. Thus, three or more layers would be adequate. This
	ТР	2	32		A5 - Can "several" layers be better defined and	indicator occurs in landscape settings other than
L	TR	3	32	General	should this indicator not be restricted to floodplains?	floodplains. We will clarify the wording.

TR	3			A7 – A9 - Is the word "modified" needed in the description in A7? It would seem that this and the next two indicators could be combined. Why are the user notes for 8 and 9 different?  Indicator A6 – Organic Bodies – How do you determine in the field an accurate assessment of the organic carbon content? However, Table 3-1 can help determine organic matter percent and whether	"Modified" is an important distinction and must be used in the indicator. A7 is very different from A8 and A9, which require a muck layer. The different thicknesses apply to different parts of the country. This distinction reflects the increasing amounts of organic matter accumulation necessary for a hydric soil as climates become cooler going from south to north. This emphasizes the need for regionalization.  The identification of muck and mucky mineral is explained in "Texturing Soil High in Organic Carbon" on
LABG	3	33	General	a soil is sapric, hemic, fibric.	page 23, which is referenced in the User Notes.  The wording of the indicator and its application to this
TR	3	51	General	F3 - What is the logic for the 6" requirement if layer starts within 10 inches? Generally we are concerned only with the upper 12 inches. In an example in which the depleted layer starts at 10", my interpretation would be that the normal high water table never gets much above that. Would such an area be a wetland?	region are decisions of the NTCHS. Proposals for changes in the indicators should be directed to NTCHS by following the procedure described in "To Comment on the Indicators" in the Field Indicators of Hydric Soils in the United States. The answer to the final question is that, if the soil meets F3, it would be a hydric soil but not necessarily a wetland.
				Indicator A9 – 1cm Muck – do not need the	,
LABG	3	36	General	sentences "To determine if muck is present, first removes loose leaves,This is sometimes called leaf litter, Or root mat." Start with "Examine for decomposed organic soil material."	Although somewhat redundant with the introduction to the chapter, the information is useful in evaluating this indicator. No change suggested.
					The indicator is common in some parts of the region. No
JG	3	33	General	This one is extremely rare.	change is necessary.
TR	3	33 - 34	General	F6 – F7 - It would seen that these two could be combined (and maybe F13).	The indicators are different. It is likely that the resulting combined indicator would be more confusing than two indicators. In any case, this is an NTCHS decision.
				I have never seen fragmental material in the Coastal	
JG	3	37	2nd bul	Plain or Mississippi valley or delta. If I did, I would really get the Delta Blues.	No response is needed.
10	2	20		No ruler. Say that it is not mucky-modified. Delete it	We used the best photos sysilable to us
JG	3	38		anyway. Is Indicators A16 (page 41) & S6 (page 45)	We used the best photos available to us.
RD	3	41	General	adequately described as to prevent mistakes in usage? This seems a drastic step to move to a chroma 3 without fully understanding the soil morphology and chemistry. For instance, some soils in this area may have a high chroma due to a high pH.	Yes. We think the descriptions and User Notes are adequate to apply the indicators correctly in most cases. As stated in the User Notes, S6 can be difficult to identify. If in doubt, ask a soil scientist with local experience.
-	•	44	0 1	If we are to use this should it be tied directly with the	No. While the indicator is mainly found in depressional landforms, as stated in the User Notes, it is not restricted
RD	3	41	General	Hydrology criteria "Geomorphic Location"?  A16 is not restrictive enough. Move the first	to that landform. No change is necessary.
JG	3	41	General	sentence of the user notes up into the definition, and define the "intermound" part it would help. Is there a glossary for such terms?	The current restrictions (e.g., MLRA 150A) are sufficient and the User Notes provide more information but are not intended to be restrictive.
JG	3	45		Does the matrix below need to be high value/low chroma?	No. No change is needed.
JG	3	45		S6 is a nightmare. The Mid-Atlantic Hydric Soils Comm. has drafted a suggested revision and it has gone to NTCHS through Lenore Vasilas. A16, S6, and S5 should require a depleted, gleyed, or reduced layer immediately underneath to prevent misuse. I have seen S5 on the sides and top of recent sand dunes	The proposal to revise the wording for S6 was rejected by the NTCHS.
				Title indicates Loamy but Tech. Description does not	All F Indicators are for loamy very fine sand or finer by
	3	50		discuss texture?	definition (see page 49). No change is necessary.
JG	3	55		F10 Marl - Marl forms from periphyton algae mats in the Everglades as well, so it is not always a lake (limnic) deposit. I have published references on this. Maybe marl is also found in non-hydric soils in the Everglades. This should be investigated.	It is not clear what is being suggested delete the word "limnic"? Otherwise the User Notes seem appropriate.
30	J	55		F12 - Would a soil with a low chroma layer 1/8 inch	
TR	3	57		thick meet this indicator if the layer occurred at the surface?	Yes.

					It states in the heading that these are "Indicators for
				Why are just these two problem hydric soils listed	Problem Soils." These are the only two recoginized for
JG	3	64		here when there are others discussed in Ch. 5? This should be clarified for the user.	this region. Chapter 5 provides options for hydric soils that lack indicators.
00	Ŭ			Are there only two indicators for problem soils in the	that last maisacre.
LABG		64	General	A&GCP or are only two currently known?	See the previous response.
					This indicator applies to problem areas with red parent material across the entire region. The User Note simply
					states where it is "most commonly found." No change is
LABG	3	64	General	Indicator TF2 is also found in Virginia	necessary unless we are greatly underestimating its extent in Virginia.
					Guidance is already provided, stating that soil colors
				Can guidance be provided on describing soil profiles when the region is in drought and the soils are	should be for moist soils and the describer may need to moisten the soil (page 26). We will expand on this
LABG	3	64	General	powder?	guidance.
				There are several taxa in Soil Taxonomy	
				(http://soils.usda.gov/technical/classification/) that	
				correlate well to hydric soils. These are: Histosols	
				(other than Folists), Histels, Aqu suborders of most soils except sandy Spodosols and all Psamments,	
				Sulfi great groups, and Histic subgroups. Some	As stated in a previous response, we have attempted to
				Mollic, Umbric, Humic, Pachic, Cumulic, Vertic, Fluvaquentic, Fluventic, and Anthraquic subgroups	limit the amount of unnecessary soils jargon, including taxonomic names. In general, they are not needed to
JG	3	65	add	may be hydric as well.	identify hydric soils.
					Wetland hydrology is defined in the glossary of the 1987
					Manual. The definition is not very relevant here,
					however, because indicators of wetland hydrology have a more limited role than indicators of hydric soils or
					hydrophytic vegetation. As explained on page 66,
					wetland hydrology indicators only indicate a recent
				this section needs to define what wetland hydrology is. There is a definition for hydric soils, and a basis	EPISODE of wetness and cannot verify that the full hydrologic regime appropriate to wetlands is present.
				for hydrophytic vegetation, both mentioned in their	The 5%, 12.5%, etc., thresholds are being dropped in
				respective introductions. If the 5%, 5 to 12.5% and >12.5% of the growing season are still to be used,	favor of a default 14 days of inundation or saturation. This is explained in Chapter 5 because it is mainly
LABG	4	66	General	this should be mentioned in the introduction.	relevant to disturbed or problematic sites.
					With appropriate cautions described in User Notes, "confirm" is appropriate. We don't understand the
					reviewer's distinction between "hydrology indicators and
					wetland hydrology indicators". In general, "recent" is
				last sentence – the word 'confirm' is pretty strong. It	within the last 2 years or so, on average, in keeping with the concept that wetlands are wet at least 5 years in 10
				is true that wetland hydrology indicators should	over a long-term record. However, giving 2 years as
				confirm that an episode of inundation or soil saturation has occurred, but in reality some	absolute would be wrong because, in any long-term climatic record, dry periods may extend several years
				indicators may only 'suggest' such. A distinction	even if the overall probability of recurrence is 50%. We
				should be made between hydrology indicators	prefer to keep this guidance general. Further restrictions
LABG	4	66	1	and wetland hydrology indicators. Also in this sentence a time frame should be given for 'recently'.	are given in User Notes for individual indicators, as needed.
				first sentence – not sure that 'ephemeral' is an	
LABG	4	66	2	appropriate term. Can a definition be provided? line 5 – "If possible, one or more site visits	We agree. We will reword the sentence.
				normal wet portionsite." I guess it is appropriate	
				to state "if possible", but it would be nice if a	The working group understands that repeat visits to field
LABG	4	66	4	sentence was added stating that the practicality of this is very low/limited.	sites are not always possible. There are very few places in this supplement where a repeat visit is required.
				I think going to 14 days and getting away from	
				percentage of growing season is a very good idea. The very short durations at some northern latitudes	
TR	4	67	1	never made any sense.	No response is needed.
				I object to the use of the growing season in the	
				Coastal plain. It has been proven that the biological	
				growing season is continuous (Burdt, A.C., J.M. Galbraith, and W.L. Daniels. 2005. Land-Use Effects	We agree, at least for some portions of the coastal plain.
				on Growing Season Length Indicators in	We will add a discussion of recent literature pointing out
JG	4	67	General	Southeastern Virginia Wet Flats. Soil Sci. Soc. Am. J. 69:1551-1558.)	that the growing season is year-round in some portions of the region.
	•	<u>.                                    </u>	Jonordi	12. 22001. 1000.)	

			1		
JG	4	67	1	Does the technical standard (sentence 13) correlate well with the technical standard developed by the Nat. Tech. Comm. for Hyd. Soils? Tech. note 11 @ http://soils.usda.gov/use/hydric/ntchs/tech_notes/ind ex.html	The two standards are different because they have different purposes. NRCS also has a wetland hydrology criterion in the National Food Security Act Manual that is different again. To avoid confusion among users of this supplement, whenever a hydrology-based standard is needed, we use same one (USACE 2005) that was based on National Academy of Sciences recommendations (NRC 1995).
JG	4	67	3	Please explain if one of these indicators supersedes another or carries more weight than others, or if the user can use the best fit of any of them.	We will reword this section to clarify that the preferred approaches to identifying the growing season are on-site observations of plant activity and soil temperature in a given year, whichever occurs first and/or persists later. The 28-degree-F air-temperature approximation should only be used if the other approaches are impractical.
JG	4	68	1d	Could this be bud swell instead?	No. Green material must be visible between the spreading bud scales.
2	4	71	Conoral	How do we know the duration?	It is not necessary to know the duration. Wetland hydrology indicators indicate a recent EPISODE of flooding, ponding, or shallow water tables. Under the 3-factor approach, we rely on indicators of hydric soils and hydrophytic vegetation to tell us that the frequency, duration, and seasonal timing of inundation or saturation was been sufficient over a period of years to create/maintain a wetland (see page 66).
JG JG	4	71 72		How do we know the duration? How do we know the duration?	See the previous response.
5	4	73	2	The comment about saturation above the watertable is an oxymoron. The capillary fringe is by definition a zone above the water table with some saturated zones and some aerated zones. It does not have a suction of 0 KPa or less, which is the definition of a saturated zone. The water is pulled into the soil above the water table by the negative water potential. This should be moved to a secondary indicator.	See the definition of saturation given in the glossary. For wetland delineation purposes, the 1987 Manual and this supplement recognize the presence of a "saturated" zone above the water table.
JG	4	72	1	This depth does not apply to sandy-textured soils. It is 15 cm in sandy soils.	The 1987 Manual, the National Academy of Sciences report, and this supplement all specify the upper 12 inches as the zone of interest, regardless of soil texture. NRCS differs. Wetland hydrology criteria given in the National Food Security Act Manual specify 6 inches for sands.
JG	4	73	General	I disagree with using this as a primary indicator. If I can see an empty pore, it is not saturated. The capillary fringe is above the free water table, and has negative water pressure (suction).	Again, the supplement's definition of saturated is given in the glossary and includes part of the capillary fringe. The issue is whether the soil layer is sufficiently waterlogged that it goes anaerobic and, thus, promotes the development of hydric soil indicators and a hydrophytic plant community.
JG	4	74	General	How do we know the duration?	See response in row 144 of this spreadsheet.
JG	4	74	Figure	In this picture, there are sediment marks and water marks. Please use a scale or insert a ruler or put lines or arrows to indicate the difference.	The reviewer's comment is true. Thus, the caption refers to the "dark stains" as the water marks. However, we will clarify by adding an arrow to the photo.
JG	4	75	Figure	In this picture, please use a scale or insert a ruler or put lines or arrows to indicate the 60-cm height.	We will make the recommended change.
JG		76	General	This is unreliable. I see drift on well-drained soils in floodplains. There must be a qualifier for use of this, such as a frequency of redistribution or duration of floating See how easy this one gets complicated?	The existing Caution is intended to make users aware that drift lines should be discounted if they are known to result from unusually high water levels. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands.

Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen. The stains and he used even when it dry. If a sheen were present on standing we work the sheen.  Can fauna that require submersion or floating for a part of their life cycle be included? if they require standing water for two or more consecutive weeks?  JG 4 82 General standing water for two or more consecutive weeks?  What about the marl forming in the Evergaldes from the Evergal	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then elindicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
explanation of the NRCS NWCC growing season data in this region. Burdt, A.C., J.M. Galbraith, and W.L. Daniels. 2005. Land-Use Effects on Growing Season Length Indicators in Southeastern Virigina Wet Flats. Soil Sci. Soc. Am. J. 69:1551-1558. They determined it to be year-round for microbes. Not one single published article claims it to be less in any part of this Region. That may not be true in other  JG 4 76 4 Regions.  Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen. The stains can be used even when the sheen.  Can fauna that require submersion or floating for a part of their life cycle be included? If they require standing water for two or more consecutive weeks? The part of their life cycle be included? If they require standing water for two or more consecutive weeks? The work of the prophy of the	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then elimidicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears at late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					Please see Burdt et al., 2005 for a complete	
W.L. Daniels. 2005. Land-Use Effects on Growing Season Length Indicators in Southeastern Virginia Wet Plats. Soil Sci. Soc. Am. J. 69:1551-1558. They determined it to be year-round of the microson of this Region. That may not be true in other Regions.  JG 4 76 4 Regions.  Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the mined or dredged materials have been recently exposed? I would not use the red stains, just the growing season.  Can fauna that require submersion or floating for a part of their life cycle be included? if they require  JG 4 83 General Standing water for two or more consecutive weeks?  What about the mar forming in the Evergaldes from Periphyton in flowing water?  Need a definitive test to identify marf. I think this would work, but need an expert's opinion. 'Marf can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCl in an air-dry condition.'  How do you get free iron in a high pH calcareous  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and sharsh come out yet? or even worse, covers the area  JG 4 86 General standing.  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round? Please see http://soils.usda.gov/user/hematic/mages/soil_temp_ region.jp it shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of control, else use the on- See the response in row 140 of this spreads  JG 4 67 General state meast members a good deep, but there are published reports of control, else use the on- specific prowing season indicators is a good idea, but there are some with complications. For example what hards.	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.						
Season Length Indicators in Southeastern Virginia Wer Flats. Soil Sci. Soc. Am. J. 89:1551-1558. They determined it to be year-round for microbes. Not one single published article claims it to be less in any part of this Region. That may not be true in other  A 76	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.					data in this region. Burdt, A.C., J.M. Galbraith, and	
Well Flats. Soil Soi. Soc. Am. J. 69:1551-1558. They determined to be year-round for microbes. Not one single published article claims it to be less in any part of this Region. That may not be true in other Regions.   See the response in row 140 of this spreads with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the microbial control of the part of their life cycle be included? if they require yeapsed? I would not use the red stains, just the growing approach ensures that areas with inclicators are affected by acid mine drainage.	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.					W.L. Daniels. 2005. Land-Use Effects on Growing	
determined it to be year-round for microbes. Not one single published article claims it to be less in any part of this Region. That may not be true in other  Regions.  See the response in row 140 of this spreads Actually, the indicator focuses on the stains, sheen. The stains can be used even when the mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen.  Gan fauna that require submersion or floating for a part of their life cycle be included? if they require standing water for two or more consecutive weeks?  What about the marf forming in the Evergaldes from Jack 1 and 1 an	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.  As stated in the supplement recognizes that broad areas have the same growing season.					Season Length Indicators in Southeastern Virginia	
Single published article claims it to be less in any part of this Region. That may not be true in other See the response in row 140 of this spreads Actually, the indicator focuses on the stains, when the stains of the stains of the stains of the stains of the stains. The stains can be used even when the stains of the stains of the stains of the stains of the stains. It is sheen were present on standing we sposed? I would not use the red stains, just the sheen.    JG   4   79   Figure   Figur	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					Wet Flats. Soil Sci. Soc. Am. J. 69:1551-1558. They	
JG 4 76 4 Regions.  See the response in row 140 of this spreads See the response in row 140 of this spreads Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen.  Can fauna that require submersion or floating for a part of their life cycle be included? if they require standing water for two or more consecutive weeks?  JG 4 82 General standing water for two or more consecutive weeks?  What about the marl forming in the Evergaldes from Periphyton in flowing water?  Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCI in an air-dry condition."  JG 4 83 Figure system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg, is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  Hov do you get free iron in a high pH calcareous See the response in row 140 of this spreads  We will add "flowing" to the User Note.  We will add "flowing" to the User Note.  We do not have an answer to the question.  We do not have an answer to the question.  It we do not have an answer to the question.  We see no need for restrictions. If vegetatio late in the season, then the indicator would return the receive in the properties of the response in row 144 of this spreads  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/usse/thematic/images/soil_temp_ reg.jpg it shows only a tiny part of the Region with a mesic soil temperature regime, and even there there	See the response in row 140 of this spreadsheet.  Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					determined it to be year-round for microbes. Not one	
See the response in row 140 of this spreads with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the stains. The stains can be used even when the dry in the stains, when the stains is sheen. The stains can be used even when the dry in the stains of the stains in the stains of the stains. The stains can be used even when the dry in the stains of the stains in the stains of the stains. The stains can be used even when the stains of the stains. The stains can be used even when the stains of the stains of the stains of the stains of the stains. The stains can be used even when the stains of the stains of the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, sheen. The stains can be used even when the stains, such as approach ensures that areas with indicator will or a part of the stains, such as approach ensures that areas with indicator found. The stains approach ensures that areas with indicator stains, and the stains, such as approach ensures that areas with indicator would when the stains, such as a stains, such as approach ensures that areas with indicator would when the stains, such as a stains, such as a stains, such as a stains, such as a	Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen. The stain approach ensures that areas with indicators areas affected by acid mine drainage.    JG   4   82   General stainding water for two or more consecutive weeks?	Actually, the indicator focuses on the stains, not the sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen.  JG 4 79 Figure sheen.  Can fauna that require submersion or floating for a part of their life cycle be included? If they require year of their life cycle be included? If they require year of their life cycle be included? If they require year of their life cycle be included? If they require years affected by acid mine drainage.  JG 4 83 General Periphyton in flowing water?  Need a definitive test to identify mart. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%) How do you get free iron in a high pH calcareous years with HCl to evolve CO2.  JG 4 83 Figure System? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area late? Can you put a seasonal restriction to this? How do you get free iron on a vigent or even worse, covers the area late? The cover of the co	sheen. The stains can be used even when the site is dry. If a sheen were present on standing water, then indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears at that time and other indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	76	4	Regions.	
Could the Fe deposits shown in 4-10 be confused with acid-mine drainage on a non-wetland site where mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen.  JG 4 79 Figure sheen:  Can fauna that require submersion or floating for a part of their life cycle be included? if they require standing water for two or more consecutive weeks?  JG 4 82 General standing water for two or more consecutive weeks?  What about the mart forming in the Evergaldes from Need a definitive test to identify mart. I think this would work, but need an expert's opinion. "Mart can be identified by a violent reaction with dilute (10%)  JG 4 83 General HC in an air-dry condition."  How do you get free iron in a high pH calcareous system? Inon should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg, is annual and hasn't come out yet? or even worse, covers the area.  JG 4 85 General later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round? Please see http://soils.usda.gov/use/thematic/mage/soil_temp_reg.jpg. It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onspire of the response in row 140 of this spreads for mesigned and substance are some with complications. For example what there are some with complications. For example what there are published there are some with complications. For example what there are published to the fide the published and published published to not the ground. Within the res	dry. If a sheen were present on standing water, then elimidicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
with acid-mine drainage on a non-wetland site where indicator A1 would apply. In any case, the 3 approach ensures that areas with indicators approach ensures that areas approach ensures that areas with indicators are approach ensures that areas with indicators areas approach ensures that areas with indicators approach ensures that areas with indicators approach ensures that areas with indicators areas approach ensures that areas with indicators areas approach ensures that areas with indicators approach ensures that areas with indicators areas approach ensures that areas with indicators areas approach ensures that areas with indicators areas approach ensures that areas with indicators approach ensures that areas with indicators are approach ensures that areas with indicators areas approach ensures that areas with indicators are approach ensures. The standard for well not be ensured that the property of the User Note.   Yes. Examples?  We will add "flowing" to the User Note.  We see no need for restrictions. If vegetation and harm's common and harm's common and harm's common and harm's common and the property of the vegetation indicators are not present, the	e indicator A1 would apply. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					Could the Fe demonstrate above in 4.40 he confidence	
mined or dredged materials have been recently exposed? I would not use the red stains, just the sheen.  Can fauna that require submersion or floating for a part of their life cycle be included? if they require standing water for two or more consecutive weeks?  JG 4 82 General standing water for two or more consecutive weeks?  What about the marl forming in the Evergaldes from Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%) Figure system? I ron should be insoluble at high pH.  JG 4 83 General HCI in an air-dry condition."  How do you get free iron in a high pH calcareous system? I ron should be insoluble at high pH.  JG 4 85 General later? Can you put a seasonal restriction to this?  JG 4 86 General later? Can you put a seasonal restriction to this?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for indicators are not present, the growing season for indicators are not present, the growing season fundicators are not present, the growing season for indicators are not present, the growing season for own of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsolide and the proving season in a and 2 below.  JG 4 67 General site measurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season in indicators are not present, the growing season in microbes and for respiration from tree roots is on year-round seasons. Growing season should never ever be based on WETS tables. The best choice i	approach ensures that areas with indicators of only one factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					·	·
General   Section is not my area of expertise, but it seems like you need a simple way to left people know that even if the vegetation indicators are not present, the growing season of romicrobes and for respiration from tree roots is on year-round? Please see http://soils.usda.gov/usch/meat/cin/anges/soil repparture part of the regime some with complex of the policy is to declare it year-round, else use the on-site measurements in 1 and 2 below.    JG 4 87   Figure   September   Figure   Seems on indicator site of the part of	factor will not be mistaken for wetlands. This includes areas affected by acid mine drainage.  Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					5	
JG   4   79   Figure   sheen.	As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						` `
Can fauna that require submersion or floating for a part of their life cycle be included? if they require standing water for two or more consecutive weeks?  What about the mart forming in the Evergaldes from We will add "flowing" to the User Note.  We do not have an answer to the user.  Is a flowing to the User Note.  We do not have an answer to the Net of the Re	Yes. Examples?  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	79	Figure		
JG 4 82 General standing water for two or more consecutive weeks?  What about the marl forming in the Evergaldes from Periphyton in flowing water?  Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCl in an air-dry condition."  How do you get free iron in a high pH calcareous system? How do you get free iron in a high pH calcareous system? Figure system? Inon should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg, is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the veg real in the veg is an on the growing season for microbes and for respiration from tree roots is on year-round! In this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/hematic/images/soil_tempreg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing seasons should never ever be based on WETS tables. The best choice is to declare it year-round, else use the ongrowing season in dicators is a good idea, but there are some with complications. For example what	We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
JG 4 82 General standing water for two or more consecutive weeks?  What about the marl forming in the Evergaldes from What about the marl forming in the Evergaldes from Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCl in an air-dry condition."  How do you get free iron in a high pH calcareous System? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this? How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/hematic/images/soil_temp_reg_jpg_ It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the ongrowing season indicators is a good idea, but there are some with complications. For example what	We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					Can fauna that require submersion or floating for a	
JG 4 83 General Periphytroin inflowing water?  Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCI in an air-dry condition."  How do you get free iron in a high pH calcareous system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General  We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mentic reacts with HCI to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetatio that time and other indicators should be user.  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation from tree roots is on year-round? Please see http://soils.usda.gov/use/fhematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-ro	We will add "flowing" to the User Note.  As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					part of their life cycle be included? if they require	
JG   4   83   General   Periphyton in flowing water?   Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)   As in hydric soil indicator F10, we will mention reacts with HCl to evolve CO2.	As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	82	General		Yes. Examples?
Need a definitive test to identify marl. I think this would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCl in an air-dry condition."  How do you get free iron in a high pH calcareous system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/mages/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on-street with complications. For example what  JG 4 67 General Step Can you go dead, but there are some with complications. For example what point to point on the ground. Within the rest	As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						NAZ SIL LING SIL
would work, but need an expert's opinion. "Marl can be identified by a violent reaction with dilute (10%)  JG 4 83 General HCl in an air-dry condition."  How do you get free iron in a high pH calcareous system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  JG 4 85 General later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on-growing season is a conaplies to landscapes. It should not be differed are some with complications. For example what	As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	83	General		We will add "flowing" to the User Note.
be identified by a violent reaction with dilute (10%)  JG 4 83 General HCl in an air-dry condition."  How do you get free iron in a high pH calcareous system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators?  Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area that time and other indicator would react that time and other indicators should be user How can we realate these to frequency and duration  JG 4 86 General of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the ongrowing season indicators is a good idea, but there are some with complications. For example what	As in hydric soil indicator F10, we will mention that marl reacts with HCl to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					· · · · · · · · · · · · · · · · · · ·	
JG 4 83 General HCl in an air-dry condition."  How do you get free iron in a high pH calcareous JG 4 83 Figure system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration JG 4 86 General of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the ongrowing season indicators is a good idea, but there are some with complications. For example what	reacts with HCI to evolve CO2.  We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						As in hydric soil indicator E10, we will mention that mark
How do you get free iron in a high pH calcareous system? Iron should be insoluble at high pH.   We do not have an answer to the question.	We do not have an answer to the question.  We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	IG	1	83	General		I
JG 4 83 Figure system? Iron should be insoluble at high pH.  Isn't this already covered with other indicators? Seems subjective. What if the veg, is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on-growing season indicators is a good idea, but there are some with complications. For example what	We see no need for restrictions. If vegetation appears late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	- 30	7	00	General		reacts with Fior to evolve GOZ.
Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General Seems subjective. What if the veg. is annual and later in the season, then the indicators would rethat time and other indicators would rethat time and other indicators yould late in the season, then the indicators have late in the season, then the indicators vould? It that time and other indicators yould rethat time and other indicators yould late in the season, then the indicators hauld late in the season, then the hauld late in the season, then the hall late in the season, then the hall late in the season late in the season. See the response in row 144 of this spreads of flooding?	a late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	83	Figure		We do not have an answer to the question.
Seems subjective. What if the veg. is annual and hasn't come out yet? or even worse, covers the area later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General Seems subjective. What if the veg. is annual and later in the season, then the indicators would rethat time and other indicators would rethat time and other indicators yould late in the season, then the indicators have late in the season, then the indicators vould? It that time and other indicators yould rethat time and other indicators yould late in the season, then the indicators hauld late in the season, then the hauld late in the season, then the hall late in the season, then the hall late in the season late in the season. See the response in row 144 of this spreads of flooding?	a late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
JG 4 85 General later? Can you put a seasonal restriction to this?  How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General later? Can you put a seasonal restriction to this? that time and other indicators would in that time and other indicators should that time and other indicators should that time and other indicators should that time and other indicators would in that time and other indicators would in that time and other indicators would in that time and other indicators should that time and other indicators see the response in row 144 of this spreads that time and other indicators is a good idea, but there are some with complications. For example what	a late in the season, then the indicator would not be met at that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
JG 4 85 General later? Can you put a seasonal restriction to this? How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General later? Can you put a seasonal restriction to this?  that time and other indicators should be used.  See the response in row 144 of this spreads of the response in row 140 of this spreads.  See the response in row 140 of this spreads.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	that time and other indicators should be used.  See the response in row 144 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
JG 4 86 General How can we realate these to frequency and duration of flooding?  This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General Site measurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						· · · · · · · · · · · · · · · · · · ·
This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on-growing season is a condition of the section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	85	General	, ,	that time and other indicators should be used.
This Section is not my area of expertise, but it seems like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General Site measurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	86	General	. ,	See the response in row 144 of this spreadsheet
like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_ reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsice is to declare it year-round, else use the onsice is to declare it year-round, else use the onsice is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	- 00	7	- 00	Ochorai	or neconny:	Cee the response in row 144 of this spreadsheet.
like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_ reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsice is to declare it year-round, else use the onsice is to declare it year-round. See the response in row 140 of this spreads  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
like you need a simple way to let people know that even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_ reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsice is to declare it year-round, else use the onsice is to declare it year-round. See the response in row 140 of this spreads  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					This Section is not my area of expertise, but it seems	
even if the vegetation indicators are not present, the growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on-JG General site measurements in 1 and 2 below.  See the response in row 140 of this spreads Yes. To be useful, growing season is a congrowing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
growing season for microbes and for respiration from tree roots is on year-round in this Region. Why not make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on-doice is to declare it year-round, else use the on-growing season in and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
make it simple and just say year-round? Please see http://soils.usda.gov/use/thematic/images/soil_temp_reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General Steemeasurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
http://soils.usda.gov/use/thematic/images/soil_temp_ reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the on- site measurements in 1 and 2 below.  See the response in row 140 of this spreads  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					tree roots is on year-round in this Region. Why not	
reg.jpg It shows only a tiny part of the Region with a mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					make it simple and just say year-round? Please see	
mesic soil temperature regime, and even there there are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  JG 4 67 General This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what point to point on the ground. Within the rest	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
are published reports of continuous microbial or vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  See the response in row 140 of this spreads  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					0,10	
vegetative growing seasons. Growing season should never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  See the response in row 140 of this spreads  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
never ever be based on WETS tables. The best choice is to declare it year-round, else use the onsite measurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what service of the point on the ground. Within the rest in the point on the ground. Within the rest in the point on the ground.	See the response in row 140 of this spreadsheet.  Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
choice is to declare it year-round, else use the on- general site measurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what  choice is to declare it year-round, else use the on- See the response in row 140 of this spreads  Yes. To be useful, growing season is a conductive applies to landscapes. It should not be different point to point on the ground. Within the rest	Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
JG 4 67 General site measurements in 1 and 2 below.  This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what  See the response in row 140 of this spreads  Yes. To be useful, growing season is a condapplies to landscapes. It should not be different point to point on the ground. Within the rest	Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
This section needs thoughtful revision. The list of growing season indicators is a good idea, but there are some with complications. For example what yes. To be useful, growing season is a concept applies to landscapes. It should not be different point to point on the ground. Within the rest	Yes. To be useful, growing season is a concept that applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	JG	4	67	General	•	See the response in row 140 of this spreadsheet.
growing season indicators is a good idea, but there are some with complications. For example what applies to landscapes. It should not be different point to point on the ground. Within the rest	applies to landscapes. It should not be different from point to point on the ground. Within the restrictions given in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in		•	<u> </u>	20.10101		·
	in this section, the supplement recognizes that broad areas have the same growing season.  As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					growing season indicators is a good idea, but there	· · · · ·
	As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					are some with complications. For example what	point to point on the ground. Within the restrictions given
	As stated in the supplement, the 14 days is based on National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in					does the wording "or the surrounding area" in the	, · · · · · · · · · · · · · · · · · · ·
TR 4 67 General first paragraph mean? 5 feet? 100 yards? areas have the same growing season.	National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in	TR	4	67	General	first paragraph mean? 5 feet? 100 yards?	areas have the same growing season.
	National Academy of Sciences recommentations, in the absence of other standards established for a particular region or wetland type. Wetland determinations in						
	absence of other standards established for a particular region or wetland type. Wetland determinations in					It needs to be emphasized that the standard	
	region or wetland type. Wetland determinations in					•	I - I
	•					•	
	Troutine cases are pased on presence or ansence of						routine cases are based on presence or absence of
	•						
	standard for "normal" situations, and the supplement					under 'normal' situations/conditions. Overall, it	
						should be explained why the length of 14 days was	does not give one. The standard is invoked only in
should be explained why the length of 14 days was does not give one. The standard is invoked	does not give one. The standard is invoked only in	LABG	4	67	1	chosen.	disturbed or problem cases.
	1	LARG	4	67	1	. , , , , , , , , , , , , , , , , , , ,	
should be explained why the length of 14 days was does not give one. The standard is invoked	does not give one. The standard is invoked only in	בי יבי	т	٠,			

We discussed removing the idea of a growing season from this supplement because studies have continuous growing season, beased on soil supportance, in the Altamic and Sulf Coustal Plain region. Subsequent discussion supposted just intercepting the reference to temperatures (a firstall), but keeping the indicators of biological activity. I agree that generally there is a distinct growing season there are a to rid disabilities documenting the specifics to their region. Alta othis concept of indicators of biological activity is no now and not indicators of biological activity is one wand not indicators. It is specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to be used at this time. Several key specified to the several key					Day in the second of the secon	
LABG   4   Which life form (trees, shrubs or herbs) are better indicators?	LABG	4	67		shown that (at least in wetlands) there is a continuous growing season, based on soil temperatures, in the Atlantic and Gulf Coastal Plain region. Subsequent discussion suggested just removing the reference to temperatures (air/soil), but keeping the indicators of biological activity. I agree that generally there is a distinct growing season based on biological activities, but I do not believe there are a lot of data/studies documenting the specifics to this region. Also this concept of indicators of biological activity is too new and not fully defined to be used at this time. Several key	
LABG 4 hte species or 10, 20?  LABG 4 Are certain species better indicators than others?  Landscape position, surrounding land use (especially uban areas) could influence biological activity.  Landscape position, surrounding land use (especially uban areas) could influence biological activity.  Landscape position, surrounding land use (especially uban areas) could influence biological activity.  Lands 4 urban areas) could influence biological activity.  Is bud burst or emergence on one branch ok or does the entire tree need to exhibit this biological activity?  Has the growing season ended when woody deciduous trees lose some OR all of their leaves? Some species will lose their leaves sooner than others, so which species do you use?  LABG 4 or a company of the growing season has begun and is ongoing if either of these conditions is met", it is unclear what is met.  LABG 4 67 3 unclear what is met.  Are growing season determinations always going to be subject to CDC approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local CDC district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination approaches that the CDE says are not acceptable?  LABG 4 67 General are acceptable?  I a – numerous small herbaceous species (e.g., chickweed, common lespedeza) may emerge in January or Foundary, especially following warm periods. This is well before the actual growing season dates mornally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more cosely with most people's concept of the growing season date has a 20 of dea. Any references for it? Having said this, I magnie that during many winters	LABG	4				people can have different opinions. The same issues have been discussed by various regional working groups and by the National Advisory Team. The NAT developed the standardized wording used in this and previous supplements. In the future, proposals for changes in the supplements, along with supporting data,
LABG 4 Are certain species better indicators than others? See the response in row 165.  Landscape position, surrounding land use (especially urban areas) could influence biological activity.  Is bud burst or emergence on one branch ok or does the entire tree need to exhibit this biological activity?  Has the growing season ended when woody deciduous trees lose some OR all of their leaves? Some species will lose their leaves sooner than others, so which species do you use?  LABG 4 of a see the response in row 165.  See the response in row 16					Is the biological activity to occur on one individual of	
LABG 4 Landscape position, surrounding land use (especially urban areas) could influence biological activity.  LABG 4 Landscape position, surrounding land use (especially urban areas) could influence biological activity.  Is bud burst or emergence on one branch ok or does the entire tree need to exhibit this biological activity?  Has the growing season ended when woody deciduous trees lose some OR all of their leaves? Some species will lose their leaves sooner than others, so which species do you use?  LABG 4 The sentence "The growing season has begun and in the sentence "The growing season has begun and in the sentence "The growing season has begun and in the sentence "The growing season has begun and be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination approaches that the COE says are not acceptable?  LABG 4 67 General are not acceptable?  LABG 5 General are not acceptable?  LABG 6 General are not acceptable?  1a. – numerous small herbaceous species (e.g., chickweed, common lespedeza) may emerge in January or February, especially following warm periods. This is well before the actual growing season determination elspedeza) may emerge in January or February, especially following warm periods. This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing season.  2. The change to 12 inches from 20 probably is a good idea. Any references for it? Having said this, I magine that during many winters, soil temperatures at 21 cinches are more var					•	
LABG 4   urban areas) could influence biological activity. See the response in row 165.  Is bud burst or emergence on one branch ok or does the entire tree need to exhibit this biological activity? See the response in row 165.  Has the growing season ended when woody deciduous trees lose some OR all of their leaves? Some species will lose their leaves sooner than others, so which species do you use?  LABG 4   Formula time to the seconditions is met", it is unclear what is met.  LABG 4   Formula time to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination. Are there currently any growing season determination approaches that the COE says asson dates minimating a manual propositions of the respion. They will not be in a wetand, but in the "surrounding area." This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetand, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing season that during many winters, soll temperatures at 12 inches are more variable than at 20 in the top 12 inches. For consistency, the 12-inch depth was used there as well, even thugh we know that soil at 12 inches never go below 41C. This certainly wil	LABG	4			·	See the response in row ros.
LABG 4 Has the growing season ended when woody deciduous trees lose some OR all of their leaves? Some species will lose their leaves sone of their leaves? Some species will lose their leaves sone than others, so which species do you use?  See the response in row 165.  See the response in row 165.  See the response in row 165.  It means that the beginning of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and the end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and the end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and the end of the growing season is indicated by whichever occurs last.  Are growing season determinations always going to be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination approaches that the COE says determination. Are there currently any growing season determination approaches that the COE says are not acceptable?  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  See the response in row 165.  See the response in row 165.  The procedures in this supplement are "approved" will delete the sentence.  The procedures in this supplement are "approved" will be delete the	LABG	4				See the response in row 165.
deciduous trees lose some OR all of their leaves? Some species will lose their leaves? Some species will lose their leaves? Some species will lose their leaves sooner than others, so which species do you use?  See the response in row 165. It means that the beginning of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and its end of the growing season determinations always going to be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination approaches that the COE says will delete the sentence.  LABG 4 67 General are not acceptable?  1a. – numerous small herbaceous species (e.g., chickweed, common lespedeza) may emerge in January or February, especially following warm periods. This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing season dates normally used in portions of the region.  The procedures in this supplement are "approved". We wi	LABG	4				See the response in row 165.
LABG 4 67 3 In the sentence "The growing season has begun and is ongoing if either of these conditions is met", it is unclear what is met.  Are growing season determinations always going to be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination. Are there currently any growing season determination approaches that the COE says are not acceptable?  In unmorror of septial periods. This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing season is indicated by whichever condition (i.e., item 1 or 2) cocurs first, and the end of the growing season is indicated by whichever condition (i.e., item 1 or 2) cocurs first, and the end of the growing season is indicated by whichever occurs last.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved" by the procedures in this supplement are "approved". We will delete the sentence.  The procedures in this					deciduous trees lose some OR all of their leaves?	
LABG 4 67 3 unclear what is met.  Are growing season determinations always going to be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination approaches that the COE says eason determination. Are there currently any growing season determination approaches that the COE says asson determination approaches that the COE says are not acceptable?  LABG 4 67 General are not acceptable?  In a numerous small herbaceous species (e.g., chickweed, common lespedeza) may emerge in January or February, especially following warm periods. This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing season is indicated by whichever condition (i.e., item of of the growing season is indicated by whichever condition (i.e., item of of the growing season is indicated by whichever occurs last.  The acceptable, but need to be approved by the local core last.  Are growing season is indicated by whichever occurs last.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved" we will delete the sentence.  The procedures in this supplement are "approved" will delete the sentence.  The procedures in this supplement are "approved" will delete the sentence.  The procedu	LABG	4			others, so which species do you use?	
Are growing season determinations always going to be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination. Are there currently any growing season determination approaches that the COE says  LABG 4 67 General are not acceptable?  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved". We will delete the sentence.  The procedures in this supplement are "approved" in the "surrounding area." This sentence.  The procedures in this supplement ar						beginning of the growing season is indicated by whichever condition (i.e., item 1 or 2) occurs first, and
be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination approaches that the COE says  LABG 4 67 General are not acceptable?  The procedures in this supplement are "approved". We will delete the sentence.  The yould not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing  TR 4 68 1 season.  See the response in row 165.  In all other aspects of wetland delineation, the focus is on the top 12 inches. For consistency, the 12-inch depth was used here as well, even though we know that soil at 12 inches never go below 41C. This certainly will temperatures at 12 inches are more variable than at 20	LABG	4	67	3		,
chickweed, common lespedeza) may emerge in January or February, especially following warm periods. This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing  TR 4 68 1 See the response in row 165.  2. The change to 12 inches from 20 probably is a good idea. Any references for it? Having said this, I imagine that during many winters, soil temperatures at 12 inches never go below 41C. This certainly will temperatures at 12 inches are more variable than at 20	LABG	4	67		be subject to COE approval? This manual should set the standard and state that other methods may be acceptable, but need to be approved by the local COE district. Guidance should be provided on how to obtain approval of a growing season determination. Are there currently any growing season determination approaches that the COE says	
2. The change to 12 inches from 20 probably is a good idea. Any references for it? Having said this, I imagine that during many winters, soil temperatures at 12 inches never go below 41C. This certainly will					1a. – numerous small herbaceous species (e.g., chickweed, common lespedeza) may emerge in January or February, especially following warm periods. This is well before the actual growing season dates normally used in portions of the region. They will not be in a wetland, but in the "surrounding area." This small group of species will cause confusion to many people. What about winter wheat and ryegrass which are not evergreen, but are green all winter? We might consider focusing on the woody species whose life cycles seem to coincide more closely with most people's concept of the growing	
at 12 inches never go below 41C. This certainly will temperatures at 12 inches are more variable than at 20		•			The change to 12 inches from 20 probably is a good idea. Any references for it? Having said this, I	In all other aspects of wetland delineation, the focus is on the top 12 inches. For consistency, the 12-inch depth
	TR	4	68	4	at 12 inches never go below 41C. This certainly will	temperatures at 12 inches are more variable than at 20

					The statement as written would include drought, which
LABG	4	68	2	drought should also be mentioned as it could cause plants to prematurely drop their leaves.	would simply make the "dry season" start even earlier. Soil temperature is the alternative.
LABG	4	68	4	it may not always be possible to measure soil temperature at 12 inches, especially if the soil depth to bedrock or other restrictive layer is less than 12 inches. It is unclear why a one-time measurement is sufficient and why it is not required. How do you know if you are in the growing season? In northern Virginia soil temperatures can fluctuate above and below 41 °F (5 °C) within a matter of a few days between January to March.	See the response in row 174. If the soil is shallow, measure at the maximum depth. Growing season information is not needed to carry out a wetland delineation in most cases; therefore, soil temperature measurements are not required.
TR	4	68	5	I think the idea of different groups for different types of hydrology is good. I however disagree with some indicators and think several should be reassigned to a different category (i.e., primary or secondary).	We will respond to specific suggestions below.
LABG	4	68-69		for group D what are time frame suggestions to distinguish between contemporary and historical?	No firm thresholds are needed. See the response in row 136.
LABG	4	69		Are there many other indicators of wetland hydrology that are listed somewhere, but not included in this supplement or others that have not been thought of yet (speculatively what percentage of current indicators could this be)? What is considered appropriate documentation for other evidence of wetland hydrology?	We have no examples of "other evidence" but do not wish to exclude valid observations. The documentation must be sufficient to convince others and, potentially, to stand up in court.
LABG	4	70		Group D is to consist of vegetation and soil features. Geomorphic position does not fit either category.	We will revise the wording to include landscape features.
TR	4	70	table	A2 – I have reservations about using non-growing season observations. The caveat probably should be the presence of other hydrology indicators and strong indicators of soil.	Sufficient cautions are given in User Notes for each indicator. The user always has the option of returning during the growing season if other indicators of wetland hydrology are absent. In any case, the 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands.
TR	4	70	table	A3 – The wording of this indicator needs revising. The requirement for a restricting layer within 12 inches of the surface would eliminate one of the most common hydric soils in this area. The Guthrie series is found in both depressions and slope wetlands throughout central TN. It has a fragipan, but it commonly is deeper than 12 inches.	If the restrictive layer is deeper than 12 inches, there is room for a water table below the saturated zone and the indicator would be met. The waiver for shallow restrictive layers was simply because of insufficient room for a true water table to develop. There is no requirement for a restrictive layer within 12 inches.
TD	4	70	tabla	B1 – B3 – I think these should be "secondary" indicators. They denote flooding or inundation, but really do not reveal much about the duration. This especially is true of B2 and B3. In spite of the continuous they are subject to might be protected.	See the response in row 144 of this enreadsheet
TR TR	4	70 70	table	cautions, they are subject to misinterpretation.  B5 – Acid mine drainage may be confused with this indicator. Also, a sheen caused by bacterial colonies may be confused with this indicator. Maybe more guidance is needed on identifying iron deposits.	See the response in row 144 of this spreadsheet.  See the response in row 154.
TR	4	70	table	with this one, especially are interpretation problems with this one, especially as a primary indicator. For example, frogs lay eggs in many types of depression. Many of these stay wet long enough for eggs to hatch and tadpoles to develop, but are not wet enough to be wetlands. We all see ruts in roads with this indicator. If it is maintained, it should not have primary status.	The presence of tadpoles indicates that inundation occurred over at least a few days and often 2 weeks or more, depending upon the species. This is a strong indicator of recent inundation and, therefore, deserves the Primary rating although the area may not qualify as a wetland. The 3-factor approach ensures that areas with indicators of only one factor will not be mistaken for wetlands.
TR	4	70	table	B8 – This is a good idea, but the requirement for less that 5% cover seems too restrictive. I think increasing it to 15 or 20% would be more realistic. Most of the depressions in bottomslands will have more than 5% cover of a few species (e.g., lizard's tail, arrowhead, etc.)	The intended focus is on nearly unvegetated concave surfaces due to ponding. If more plant cover is present, then other indicators must be used.

many areas that have drainage patte wetlands. The 3-factor approach ensindicators of only one factor will not be table places I see it typically are not wetlands  B16 – Moss trim lines seem like a relatively strong indicators are but these were discovered to the second of the secon	sures that areas with
TR 4 70 table had difficulty with. It is indicative of flow and the places I see it typically are not wetlands wetlands.  B16 – Moss trim lines seem like a relatively strong	
B16 – Moss trim lines seem like a relatively strong	oe mistaken for
in display to me - but the display to the	
indicator to me, but there was disagreement among	
our group during the conference call. In many areas, The working group felt that Secondar TR 4 70 table I even would consider making it a primary indicator. in this region.	ry was appropriate
C1 – This is a strong indicator, but as I noted above	
in the soil section, it very commonly is confused with earthy aromatic compounds. Does it ever occur	
without other indicators being present? I suggest	
making it a secondary indicator given potential  TR 4 70 table problems.  This is a training issue and not a fault	It with the indicator
B9 – I thought this indicator would disappear	it with the indicator.
because of all the problems with it over the years, and still believe that it should. If it is maintained, it	
should be restricted to surface leaves and maybe  We are not aware of interpretation pro	roblems with water-
should be restricted to concave landforms. Given all stained leaves beyond the cautions g	
the interpretation problems, it should not be a Notes. Members of the working ground TR 4 70 table primary indicator.	•
C4 – I have had trouble telling if color changes occur because of chemical reactions or are simply due to Do not allow the samples to dry. If the	hey do, then moisten
drying. I imagine others have the same concern. them again. If a color change was du	
Also, a ferrous iron test only tells us about the oxygen, it will still be evident after rer condition on that day-not necessarily about long term do not use the indicator. The present	•
conditions. At a minimum, I would think about indicates a long period of saturation a	and anaerobiosis
TR 4 70 table eliminating the color change portion of this indicator. and not just wetness that occurred the C6 – I do not much experience with this indicator,	nat day.
but think it is too subject to interpretation and should	
TR 4 70 table have secondary status. The working group disagrees.  The 1-inch threshold is arbitrary, but	the indicator must
C7 – I do not understand the logic for restricting the be restricted to thin muck layers. Mu	uck farms that have
layer thickness to 1 inch or less. Any muck on the surface certainly suggests very wet conditions. been drained for decades and used to often still have thick muck surfaces.	
surface certainly suggests very wet conditions.  Would a thick muck layer not indicate an active often still have thick muck surfaces. Surface does not reliably indicate actions.	
TR 4 70 table wetland hydrologic regime as well as a thin one? hydrology.  The supplement does not recognize of the supple	different "etrangthe"
C2 – I agree conceptually with this indicator, but of soil or vegetation indicators. Hydri	
ones like this should have caveats that soil and hydrophytic vegetation are either pres	
vegetation indicators should be present and strong. The last sentence on page 94 (C8) would three factors be present to determine	
TR 4 70 table be ok. wetland.	
C8 – I think this is generally a good indicator, but several in our groups seemed to disagree as they	
knew of several species burrow deeply. I think its	
Secondary status and the caveat in the last sentence  TR 4 70 table make it ok.  No response is needed.	
	,
D2 – There is so much variability with conditions in This indicator is only Secondary. The similar landscape positions, I wonder if this is a good that the area is a wetland already required.	
idea. At a minimum, it also should have caveats additional secondary indicator of wetl	tland hydrology, plus
about soils and vegetation. I do not understand the lindicators of both hydric soil and hydrological last sentence in the caution paragraph. If you know Do not use it on sand and gravel sub-	
the water table is near the surface, you do not need shallow water table is present, in which	ich case you can
TR 4 70 table this indicator. ?? also use indicator A2. Check all indic	cators that apply.
D3 – I do not care for this indicator because most of	
the people conducting delineations will be competent to identify the aquitard (aquatard?). Clay layers are	
relatively easy; some of the others are not. Some	
soils have fragipans, but the pans are discontinuous.	
I have heard disagreements about whether or now spodic horizons are aquitards. I do not have any To help identify an aquitard, we will a	add that generally
idea about how to identify lacustrine desposits that there is little or no root penetration th	rough an aquitard
TR 4 70 table are aquitards. and, thus, the roots run parallel to the D5 – Although this indicator has been around for	e surtace.
over a decade, it still is viewed by many as "double	
counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably vegetation indicator. It is only used a	
would delete it. hydrology indicator.	

				For Groups B, C, and D there are values that are	Indicators have been numbered sequentially since the
				missing, such as B11 and B12. Will the indicators	first regional supplement was published for Alaska. An
				be renumbered to be consecutive or an explanation	indicator has the same designation in all regions where it
LABG	4	70	Table	(and inclusion) of what the missing indicators are?	is used.
				Suggest moving all of the B's except B1 to	
				secondary indicators. However, further discussion	
LABG	4	70	Table	will suggest removal of several of the B indicators.	We will respond to specific suggestions.
				Group A Indicators – as in the hydric soils section,	
				there are redundant sentences in the Cautions and	This format has been established in all provious
LABG	4	71		User Notes that could be stated once prior to, or at the beginning of, this section.	This format has been established in all previous supplements.
LADG	4	7.1		Could the restrictive layer or bedrock be at a depth	Supplements.
				greater than 12 inches and allow saturated	
				conditions to occur within 12 inches. It should be	
				standard to record depth to water table on data	
				forms. This will provide consistency on where to find	
LABG	4	73		the information.	See the response in row 182.
				Cautions and User Notes, last sentence – if this	
				sentence is in reference to streams, then it is not	
				needed. However, if it refers to wetlands that could be located within the "stream channel", outside of	
				the ordinary high water mark, clarity and/or more	
LABG	4	75		explanation is needed.	We do not understand the comment.
2,,50	т			onplantation to trouded.	1.0 do 1.0t diladiotaria trio dominont.
				How often are drift deposits a true indicator of	
				primary wetland hydrology? They are an indicator	
				that water has moved through an area, but does not	
				provide any indication as to the length of time the	
				water was present. I have often seen this indicator	
				misused when the drift deposits were caused by	
				stormwater flow on slopes, especially near urban	
				environments. Therefore, I suggest removing this indicator or at the very least making it a secondary	
LABG	4	76		indicator and not a primary one.	See the response in row 144 of this spreadsheet.
LADO	7	70		Do functioning drainage systems refer to stormwater	cee the response in row 144 or this spreadsheet.
				management features, ditches, etc.? This could be	They refer to any features designed to drain surface
LABG	4	76		better described.	water or groundwater from an area.
					The explanation for their Primary status is given in the
				How credible are algal mats in determining wetland	User Notes. Although not required for a Primary
				hydrology? I suggest making this indicator	designation, this is one case where the indicator reflects
LABG	4	77		secondary and not primary.	prolonged inundation.
				Cautions and User Notes should also caution that	
					We will add the observation that iron sheens will crack
				· · · · · · · · · · · · · · · · · · ·	into angular pieces when touched. The working group
				if the sheen is from a biological source or not. I	thinks that the Primary designation is appropriate, given
				suggest making this a secondary indicator instead of	that the indicator reflects that anaerobic conditions were
LABG	4	79		a primary indicator.	present.
				Figure 4-10 is not pertinent since it is in a stream	
		70	F.	and not a wetland. Also there is no scale in the	We used the best photo available to us; it clearly shows
LABG	4	79	Figure	photo.	what iron deposits look like.
				Indicator B7:This can be a tool to assist in the location of where wetlands may occur on a site, but	The reviewer gives no explanation about how the
				should not be used as a primary indicator of wetland	The reviewer gives no explanation about how the indicator could be misused. The working group believes
				hydrology. There are too many instances where this	that, with the cautions given, standing water on a photo
				indicator could be misused. Therefore, I suggest	should be given the same weight as standing water
LABG	4	80		removing this indicator.	observed during a site visit.
				Indicator B9:This indicator was previously a	
				secondary indicator. Why the change to primary	
				indicator? I suggest it potentially be removed or at a	Under previous guidance, water-stained leaves were
				minimum be a secondary indicator and not be made	given Secondary status simply because they were not
				a primary indicator. There are several studies that	listed in the 1987 Manual. In this region, the working
				document that leaves can become blackened in winter and are not a reliable hydrology indicator.	group believes that they are reliable as a Primary indicator. We would appreciate references to literature
				Also different species will react differently to based	showing that they develop over winter (although, in some
LABG	4	81		on hydroperiod.	parts of this region, the growing season is year-round).
,50	•	٠.	l	,	ir 3

				Indicator B13: Using any form of aquatic fauna for a	
				determination lends itself to misinterpretation. There	
				are too many species, which have different life	
				histories and habitat requirements, to make them a	
				good wetland hydrology indicator. It would require	
				someone well versed in the particular group of	
				organisms to make a proper determination. For	Several issues are confused in this comment. For one
				example, benthic macroinvertebrates, crayfish and	thing, a water regime that is "intermittent" does not
				amphibians have been used to determine stream	necessarily mean that an area is non-wetland.
				flow regimes (perennial versus intermittent). Broad interpretation of certain findings would result in a	Therefore, distinctions between fauna of perennial and intermittent streams are irrelevant. Having "too many
				perennial determination, whereas more detailed	species" of aquatic fauna is not a problem. The question
				species information may result in an intermittent	is whether the presence of fauna that require standing
				determination. Therefore, I suggest removing this	water is a reliable indicator of a recent episode of
LABG	4	82		indicator.	inundation. The working group believes that it is.
					No wetland indicator is "foolproof." All have caveats and
				Indicator B6: Although this indicator seems	require experience and common sense. That said, it is
1 4 D C		0.4		reasonable on the surface, I'm not sure how	not clear what the reviewer's concern is with this
LABG	4	84		foolproof it is and therefore, recommend removing it.	particular indicator.
				Indicator B8: How big of an area is needed to utilize	In theory, there is no minimum size for a wetland, although Districts may consider size in their jurisdictional
LABG	4	85		this indicator: 2 square feet, 10 square feet?	determinations.
	•			Indicator B10: Why was this changed from a primary	
				indicator? I agree that it is better suited as a	
				secondary indicator. However, I do not think "low	
				vegetation bent over in the direction of flow" should	
				be included in this indicator. This can be the result	
				of storm flow, especially in an urban setting, and not an indicator of wetland hydrology. Also remove	The working group agrees with the reviewer that the
				figure 4-18, plus there is no scale of reference in the	indicator should be Secondary. The working group will
LABG	4	86		photo.	reconsider what photographs are used as examples.
				So what do you do then? Is this indicator complete,	We do not understand the comment. If the indicator is
				or should those species be identified here by	absent, do not use it, no matter what species are
JG	4	87	General		present.
				Indicator B16: This indicator is not necessary.	
				Watermarks or sediment deposits would occur in the same situation as moss trim lines and therefore, this	
LABG	4	87		indicator would be redundant.	Perhaps, but not necessarily.
				Indicator C1: What is meant by an ongoing wetland	
				hydrologic regime? The Cautions and User notes	
				should also suggest that this is primarily found in	
				tidal wetlands and not generally inland. Also the presence of sulfur, which is not found in all soils, is	It has a hydrologic regime appropriate to wetlands. The indicator is not restricted to tidal wetlands although it is
LABG	4	88		needed for it to become reduced.	common there. We will revise the wording.
2,00	7	- 55			This supplement follows the Corps Manual and the
					National Academy of Sciences report (NRC 1995), both
					of which recommend a 12-inch critical depth,
	4	89		Should this be 15 cm for sandy textures?	independent of soil texture.
				 	Most regions have opted for a Primary status for this
				Indicator C3: This used to be a secondary indicator.	indicator, based on experience with it over the last 15
				Why did it change to a primary indicator? In Cautions and User Notes – it is implied that oxidized	years. The User Note is making a distinction between iron and organic matter, and says that iron may be
				rhizospheres do not have concentric layers or	identified by the way it transfers stains to the fingers
				transfer iron stains. If this is true, an added	when rubbed. It does not imply that oxidized
JG	4	89		sentence stating such would provide clarity.	rhizospheres do not transfer iron stains.
				Indicator C4: Are there other situations that could	
1				cause the soil to change color upon exposure to the	Only drying of the sample, and the reference to details in
LABG	4	90		air?	Chapter 5 already addresses this.
				Why do you call them problematic here when they are called "problem" hydric soils in the other parts of	We do not make any distinction between "problem" and
JG	4	90		this document?	"problematic".
	-		=		
				The user must be careful not to use iron tools when	
				excavating the soil sample to be tested, or the part	This is mentioned in Chapter 5 (page 115) but we will
JG	4	90	2	that encounters the iron tool must be discarded.	repeat the caution here.
				To be primary, should the soil matrix have chroma <	No. The indicator consists of the presence of reduced
10	4	91		2? but only a secondary indicator if the matrix chroma is > 2?	iron. We will clarify that there are no initial color requirements for the soil layer in question.
JG	4	ਤ।	General	UIIUIII 10 / L:	proquirements for the solitayer in question.

				Indicator C6: How often does this situation occur and	
				is needed when there are no other wetland	It often occurs in tilled wetlands which, due to the
				hydrology indicators? How does this differ from	disturbance, sometimes have no other hydrology
				oxidized rhizospheres? An explanation would be	indicators. These are not oxidized rhizospheres because
LABG	4	91		helpful.	no living roots are required.
10		04		The features around OM would be soft masses	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
JG	4	91		rather than pore linings.  Why not make a thick muck surface a secondary	We will reword the indicator to include soft masses.  For reasons given in the User Note, the indicator is
				indicator? Otherwise you penalize very wet soils that	limited to thin muck surfaces. If a thick muck surface is
				have > 1 inch of muck. that would include some	present, then the delineator must use other wetland
JG	4	91		Histosols!!!	hydrology indicators.
				but in most cases indicates a very wet soil. This	
				should be reconsidered. I do not recall many mucky	
				surfaced soils that have been drained, except those that are farmed. Why not just caution the user to	
				validate the hydrology by some other means if the	
JB	4	91	2	muck is thick?	See the previous response.
				Indicator C7: Remove the word 'thick' in the General	
				Description. Provide picture to illustrate the thin	See the previous response. We have no picture of this
LABG	4	92		muck surface. Indicator C2: Why specify 12 to 24 inches? The	indicator.
				depths should not be so rigid. In Cautions and User	For reliability and consistency of use, a depth range must
				Notes, second sentence – This implies that it is	be given. We do not believe that depths below 24
LABG	4	93		'always' true, but this is not likely the case	inches should be considered for this indicator.
				This one is not listed on the determination form, and	
				should be dropped. It has too many undefined	
				variables to be consistently applied. To tighten it up,	
				you could say within 12 inches of the required depth (15 or 30 cm) one month after full leafout of the	It is on the form, listed among the Secondary indicators.
				dominant (most extensive canopy cover) vegetation	The added restrictions simply complicate the issue and
JG	4	93		layer.	are not needed.
				The use of crayfish burrows needs a restriction on its use to prevent a false positive indication, such as a	
				landform restriction (e.g., floodplains) landscape	
				position (e.g., footslopes or toeslopes), or a	The restrictions are not needed. The distribution of
				maximum slope angle. Another idea is to restrict	crayfish burrows in nature is already limited largely to
				burrow use to being coupled with only with a	such areas. As a Secondary indicator, other indicators of
JG	4	94		particular list of secondary indicators.	wetland hydrology are already required.
				Some species (e.g., Distocambarus crockeri, Welch	
				and Eversole 2006) are not closely associated with	
				wetlands or aquatic habitats. Therefore, use this	
				indicator only if indicators of hydrophytic vegetation	
ID	4	04		and hydric soil are also present on areas with slopes	This comment is largely quoted from the User Note;
JB	4	94		of one percent or less.	therefore, we agree. Slope is not relevant.  The National Academy of Sciences (NRC 1995)
				Indicator c*: As stated previously utilizing organisms	recognizes that wetland fauna are reliable indicators of
				is not recommended for making determinations.	wetland conditions. This supplement follows their
LABG	4	94		Therefore, I suggest removing this indicator.	general recommendations.
JG	4	95		drown-outs or unplanted areas within planted fields	We do not understand the comment.
30	4	30		Recent satellite imagery such as ASTER can be	TTO GO HOL GRIGOSTANG LITE COMMENT.
				used to detect moist surfaces, and multiple dates	The indicator says that satellite images may be used.
JG	4	95		can be obtained in the same year.	However, aerial photography is more commonly used.
					The working group disagrees. This indicates has here
					The working group disagrees. This indicator has been adopted by several regions. It simply recognizes that
					landscape position is an important predictor of the
					occurrence of wetlands, at least in humid regions with
					abundant rainfall. As a Secondary indicator, at least one
					additional Secondary indicator is required to conclude
				Too vague and too variable to be reliable. I	that the area has wetland hydrology. Furthermore, the 3-factor approach ensures that areas with indicators of
JG	4	96		recommend deleting this one.	only one factor will not be mistaken for wetlands.
				Indicator C9: Does this pertain to all types of aerial	
				imagery or leaf off, color infrared? As stated for	
				Indicator B7 – Inundation visible on aerial imagery,	There are no restrictions on the type of imagery that can
				this can be a tool to assist in the location of where wetlands may occur on a site, but should not be	be used. Adequate cautions and restrictions are given to ensure that signatures reflect wetness and not some
				used as an indicator of wetland hydrology. There	other factor. In any case, the indicator is Secondary and
				are too many instances where this indicator could be	requires at least one additional wetland hydrology
				misused. Therefore, I suggest removing this	indicator, plus indicators of hydric soils and hydrophytic
LABG	4	95		indicator.	vegetation, to conclude that the area is a wetland.

LABG 4 96 Indicator D2. This can be a lote to develoar disorder on the security of where well-and sproud or the security of well-and should not be used as an indicator of well-and should not be used as an indicator of well-and should be indicator. Therefore, I suggest emonying the indicator of the security of the sec			1	1	T	
See the response in row 236.   See the response in row 236.   The lissue is not whether the indicator is a "soil feature" in the action of the standard of t					Indicator D2: This can be a tool to assist in the	
LABG 4 96 indicator.  Indicator D3: What is the added value of using a soll interpretation of the indicator is a "soll feature" indicator D3: What is the added value of using a soll interpretation of the indicator.  Indicator D3: What is the added value of using a soll interpretation of the indicator.  Indicator D3: What is the added value of using a soll interpretation of the indicator.  It is very subjective to say that a soll or rock layer is "repaired reference in the indicator." It is very subjective to say that a soll or rock layer is "repaired soll with a soll or soll water and the indicator." It is very subjective to say that a soll or rock layer is "repaired soll with a soll or soll water and the indicator.  JG 4 97 It is a soll read of the individual or individual o					I	
LABG 4 96 Indicator C3: What is the added value of using a solid feature of the indicator of a what is the added value of using a solid feature to be an indicator of wetland hydrology? I suggest removing this indicator.  It is very subjective to say that a sol or rook layer is repeated by the solid of the suggest removing this indicator. It is very subjective to say that a sol or rook layer is repeated by a suggest removing this indicator. It is very subjective to sol rook of reatures above a horizon with very slow KSAT rates. Can you ray no people to be able to identify a rate of the subject of						
Indicator DS: What is the added value of using a soil feature to be an indicator of welfand hydrology? I suggest removing this indicator.  It is very subjective to say that a soil or rock layer is repeable of being an applicatif but you can measure to be controlled to the subject of the sub	1 4 0 0		00		1 , 4,	0 46
LABG 4 97 Indicator D3: What is the added value of using a soil feature to be an indicator of vestland hydrology? I suggest removing this indicator.  It is very subjective to say that a soil or rock layer is 'capable of being an aquitard' but you can measure RSAT values and you can detect gray colors and redoct settleres above a horizon with very subjective to say that a soil or rock layer is 'capable of being an aquitard' but you can measure RSAT values and you can detect gray colors and redoct settleres above a horizon with very staw RSAT indicator.  I.G. 4 97 Indicator D3: Who the settleres above a horizon with very staw RSAT indicator D6: What it well of non-dominant species should be considered — all of them?  I.G. 5 98 Title introduction.  I.G. 5 99 Title introduction is presented in the introduction of the hydrogen periodol test for presence of reduced from or the hydrogen periodol test for presence or for detected. Mn or the measurement of a very low redox potential as a possive test for reduced into m the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the hydrogen periodol test for presence or feduced from the well into developed from the hydrogen periodol test for presence	LABG	4	96		indicator.	
LABG 4 97 suggest removing this indicator.  It is very subjective to say that a soil or rock layer is recipionally appropriate Secondary indicator.  It is very subjective to say that a soil or rock layer is recipionally appropriate Secondary indicator.  It is very subjective to say that a soil or rock layer is recipionally appropriate Secondary indicator.  It is very subjective to say that a soil or rock layer is recipionally appropriate Secondary indicator.  It is very subjective to say that a soil or rock layer is recipional to see the soil of the so					Indicator D3: What is the added value of using a soil	
LABG 4 97 suggest removing this indicator. appropriate Secondary indicator.  It is very subjective to say that a soil or rock layer is "capable of being an aquitard" but you can measure KSAT values and you can detect gray colors and retox features above a horzor with very six MSAT rates. Can you rely on people to be able to identify a equitard. We will also add that aquitards can be removed to the secondary should be sufficient to the purposes of a Secondary should be sufficient for the purposes of a Secondary should be sufficient for the purposes of a Secondary Seconda					l ~	, , ,
It is very subjective to say that a soil or rock layer is capable of being an aquitard* but you can measure (KSAT values and you can debet gray colors and redox features above a horizon with very slow KSAT rates. Can you rely on people to be able to identify and redox features above a horizon with very slow KSAT rates. Can you rely on people to be able to identify a fragipan? or orstein?  JG 4 98 Show example worksheet.  LABG 4 98 Show example worksheet.  Indicator DS. What level of non-dominant specie.  By Show example worksheet indicator.  JG 5 99 Title  Trible  Trible  Trible  Trible  DOT 100 100 100 100 100 100 100 100 100 10	LARG	4	97			
Capable of being an aquitand* but you can measure (SAT values and you can detect group colors and redox features above a horizon with very slow KSAT rates. Can you rely on people to be able to identify a rates. Can you rely on people to be able to identify and the surface of the proposed of Secondary indicator.    JG 4 98	LABO	7	- 01		suggest removing this indicator.	appropriate describary indicator.
Capable of being an aquitand* but you can measure (SAT values and you can detect group colors and redox features above a horizon with very slow KSAT rates. Can you rely on people to be able to identify a rates. Can you rely on people to be able to identify and the surface of the proposed of Secondary indicator.    JG 4 98					It is very subjective to say that a soil or rock layer is	The User Notes already mentions the presence of redox
KSAT values and you can detect grey colors and reduction that reads to the sturkers above a horizon with very slow KSAT values of the control of the reduction of the property of the proper						· · · · · · · · · · · · · · · · · · ·
JG   4   97   fragipan? or cristen?   The proposes of a Secondary indicator   Jack   98   Show example worksheet.   We will add an example of the FAC-neutral test.						
JG   4   98   Show example worksheet.   Indicator DS: What level of non-dominant species   Indicator DS: What level of non-dominant species   Ves.					redox features above a horizon with very slow KSAT	identified by the lack of root penetration. This guidance
LABG 4 98 Show example worksheet.  LABG 4 98 Indicator DS: What level of non-dominant species should be considered – all of them?  No turn what a weathed situation is. Please delete the term and use the terms you used in the measurement of a very low redox potential as abvocated in the NTCHS hydric soil technical color of the measurement of a very low redox potential as advocated in the NTCHS hydric soil technical color change example.  JG 5 100 2. d. strandard.  The use of hyperlinks is dangerous if they are not cited with full contact information so a person can trace their source if the web link is altered or over a decade, it stills revered by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably in the swales in relatively dense forest cover. An abundance of undsturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season.  The tree species or the solges of the swale are generally not hydrophytic species (FACU) and According to the Comardin classification this would be a PFO wetland, but with vegletation sampling restricted to the swale, there is no vegletation. The control of the control of the comment of the control of th					rates. Can you rely on people to be able to identify a	should be sufficient for the purposes of a Secondary
LABG 4 98 Indicator D5: What level of non-dominant species  Not sure what a welland situation is. Please delete the term and use the terms you used in the introduction.  Title  No change is needed.  Title	JG					
JG 5 99 Title introduction.  JG 5 99 Title introduction is Please delete the term and use the terms you used in the plant continued the term and use the terms you used in the plant continued to a very low redox potential as advocated in the NTCHS hydric soil technical standard.  JG 5 100 2.d. The use of hyperlinks is dangerous if they are not citized with full contact information so a person can trace their source if the web link is altered or over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, i probably counting the plants. I agree to a degree with this concept and with all the new indicators, i probably counting the plants. I agree to a degree with this walks olisis are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin dissification this would be a PFD wetland, but with vegetation sampling restricted to the swaling during the plants counting the plant community is not hydrophytic. According to the Cowardin dissification this would be a PFD wetland, but with vegetation sampling restricted to the swaling during the plant community is not hydrophytic. According to the walk, there is no vegetation, hence the contradiction. Plus all three wetland to hydrophytic. According to the walk, there is no vegetation, hence the contradiction on soil map units  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the unit lines are relict?  LABG 5 101 c. General with the plant consistency.  Part of t	JG	4	98		·	We will add an example of the FAC-neutral test.
Not sure what a welland situation is. Please delete the term and use the terms you used in the term and use the terms you used in the introduction.  or use the change in color upon exposure to air as a positive lest for reduced from or the hydrogen peroxide lest for presence of reduced Mn or the measurement of a very low redox potential as advocated in the NTCHS hydro soil technical object the standard.  JG 5 100 2.d. standard.  The use of hyperfinks is dangerous if they are not otted with full contact information so a person can trace their source if the web link is altered or over a decade, it still it viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably counting the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf little is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO vetand, but with vegetation sampling restricted to the swale, there is no vegetation, hence the contradiction. Plus all three welland be a pFO vetand, but with vegetation sampling restricted to the swale; there is no vegetation, hence the contradiction. Plus all three welland by a parameters/features are not met. Any suggestions?  LABG 5 100 4 celloward accurate?  Chapter 100 celloward in the proving season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO vetand, but with vegetation sampling restricted to the swale; there is no vegetation, hence the contradiction. Plus all three welland by vegetation in the contradiction. Plus all three welland					l	.,
JG   5   99   Title   introduction   nr course   nor vegetated   nr early	LABG	4	98			Yes.
JG 5 99 Title introduction.  Or use the change in color upon exposure to air as a positive test for reduced from or the hydrogen peroxide test for presence of reduced Mn or the measurement of a very low redox potential as advocated in the NTCHS hydric soil technical standard.  JG 5 100 2.d. standard.  The use of hyperinisks is dangerous if they are not cited with full contact information so a person can trace their source if the web link is altered or over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf titler is often present in the swale. Soils are undoubtedly hydric. There is water to the surface but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. — How other is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 101 c C. Cannot directly access the web site with the utilized and the other sections (pages 173 and 116) use Procedure. Provide consistency.  Part of the guidance on revisating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a						
or use the change in color upon exposure to air as a positive test for reduced from or the hydrogen peroxide test for presence of reduced Mn or the measurement of a very low redox potential as advocated in the NTCHS hydro soll technical standard.  JG 5 100 2.d. standard.  The use of hyperlinks is dangerous if they are not cited with full contact information so a person can trace their source if the web link is altered or trace their source if the web link is altered or over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably with concept and with all the new indicators, I probably with a swales in relatively dense forest cover. An abundance of undisturbed leaf littler is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season.  The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation as mappling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. — How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  LABG 5 101 c. Cannot directly access the web site with the urlished.  LABG 5 101 c. Cannot directly access the web site with the urlished.  LABG 5 102 General  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116) use Procedure. Provide consistency.  We agree.  The web link works today (3-14-2008).  The web link works today (3-14-2008).	IG	5	00	Titlo	·	No change is peeded
positive test for reduced fron or the hydrogen peroxide test for presence or reduced Mn or the measurement of a very low reduced Mn or the measurement of a very low reduced Mn or the measurement of a very low reduced Mn or the measurement of a very low reduced Mn or the measurement of a very low reduced mn or the measurement of a very low reduced mn or the measurement of a very low reduced mn or the measurement of a very low reduced mn or the measurement of a very low reduced mn or the measurement of a very low reduced or the very reduced mn or very a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf filter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface act but does not break the surface acturing the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  LABG 5 101 c listed  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  LABG 5 101 c listed  The web link works today (3-14-2008).  The delineator can make this judgment based on site characteristics and any other available information. Often t	36	J	33	Title		ino change is necucu.
peroxide test for presence of reduced Mn or the measurement of a ery low redox potential as advocated in the NTCHS hydric soil technical school and the standard.  The use of hyperlinks is dangerous if they are not cited with full contact information so a person can trace their source if the web link is altered or ver a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf little is other present in the swale. Soils are undoubtedly hydric. There is water to the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetlation. Plus all three wetland by arameters/fleatures are not met. Any suggestions?  LABG 5 100 4 relevant/accurate?  ILABG 5 101 c. C. Cannot directly access the web site with the utilisted  LABG 5 101 c. C. Cannot directly access the web site with the utilisted  This islist was not intended to be exhaustive but gives the options that are typically most useful. We will add the color change example.  This list was not intended to be exhaustive but gives the options that are typically most useful. We will add the color change example.  We agree.  We agree.  Working groups in almost every region have voted to include the indicator, with Secondary status.  Working groups in almost every region have voted to include the indicator, with Secondary status.  The following situation is not covered: non-vegetated swales are generally not hydrophytic. There is water to the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the proving season.  The tree species on the edges of the swale are generally not hydrophytic. According the proving season.  The tree species on the edges of the swale						
measurement of a very low redox potential as advocated in the NTCHS hydric soil technical standard.  The use of hyperlinks is dangerous if they are not cited with full contact information so a person can trace their source if the web link is altered or discontinuach.  JG 5 101 3.c.    D5 – Although this indicator has been around for over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably concept and with all the new indicators, I probably content in the swale. The plants I agree to a degree with this concept and with all the new indicators, I probably content in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytis species (FACU) and overall the plant community is not hydrophytis. According to the Swale, there is no vegetation, the content of the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soll map units relevant/accurate?  LABG 5 101 4 relevant/accurate?  This list was not intended to be advocated to color of hydrophytics and person can trace their source of the color change example.  The web link was traceful. We will add the color change example.  We agree.  We agree.  Working groups in almost every region have voted to include the indicator, with Secondary status.  Working groups in almost every region have voted to include the indicator, with Secondary status.  Working groups in almost every region have voted to include the indicator, with Secondary status.  The following situation is not covered: non-vegetated swales in classification the swale there is no the person of the include the indicator, with Secondary status.  The tree species on the edges of the swale there is no vegetati					, ,	
JG 5 100 2.d. standard.  The use of hyperlinks is dangerous if they are not cled with full contact information so a person can trace their source if the web link is altered or discontinued.  JG 5 101 3.c. decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  TR 5 99 General would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed legal filter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  LABG 5 100 4 relevant/accurate?  LABG 5 100 4 relevant/accurate?  JG 101 listed  LABG 5 101 C General listed with the water marks or drift lines are relicit?  LABG 5 102 General listed with the water marks or drift lines are relicit?  LABG 5 102 General listed with the water somewhat lilogical. Step 2 (2) (b) recommended Procedure (page 102) and the other sections (pages 113 and 116). We agree. We will revise the heading for consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat lilogical. Step 2 (2) (b) recommended using a light of the service size in the source of the correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a					l'	This list was not intended to be exhaustive but gives the
JG   5   100   2.d.   standard.   The use of hyperlinks is dangerous if they are not cited with full contact information so a person can trace their source if the web link is altered or discontinued.   D5 – Although this indicator has been around for over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably concept and with all the new indicators, I probably conting the plants. I agree to a degree with this concept and with all the new indicators, I probably concept and with all the new indicators, I probably conting the plants. I agree to a degree with this concept and with all the new indicators, I probably conting the plants. I agree to a degree with this concept and with all the new indicators, I probably conting the plants. I agree to a degree with this concept and with all the new indicators, I probably conting the plants. I agree to a degree with this concept and with all the new indicators, I probably conting the plant community is not hydroic. There is water to the surface during the growing season. The tree species on the edges of the swale are generally not the Cowardin classification this would be a PFO welland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three welland parameters features are not met. Any suggestions? Vegetation, c. – How often is the information on typical vegetation on soll map units relevant/accurate?  LABG 5 100 4 relevant/accurate? Often.  LABG 5 101 c. Cannot directly access the web site with the urformation on the contradiction as a relicit? C. Cannot directly access the web site with the urformation on the contradiction as a relicit process of man-made structures or other features. C. Cannot directly access the web site with the urformation on the contradiction as a relicit processor of the presence of man-made structures or other features. C. Cannot directly access the web site with the urformation on the co					l .	· ·
Cicled with full contact information so a person can trace their source if the web link is altered or we are discontinued.   D5 - Although this indicator has been around for over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably concept and with all the new indicators, I probably would delete it.    The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland three wetland three wetland three wetland to the proper parameters/features are not met. Any suggestions?    LABG   5   100   4   relevant/accurate?   A   vegetation on soil map units   The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.   The web link works today (3-14-2008).	JG	5	100	2.d.	I	
Trace their source if the web link is altered or discontinued.						
JG   5   101   3.c.   discontinued.					cited with full contact information so a person can	
D5 - Although this indicator has been around for over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland vegetation and the companies of the contradiction. Plus all three wetland vegetations are not met. Any suggestions? Vegetation, c. — How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Corps/EPA definition.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the characteristics and any other available information. The web link works today (3-14-2008).						
over a decade, it still is viewed by many as "double counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface or lose to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  LABG 5 101 c Cannot directly access the web site with the url listed  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a	JG	5	101	3.c.		We agree.
counting" the plants. I agree to a degree with this concept and with all the new indicators, I probably would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface or close to the surface, but does not break the surface or close to the surface, but does not break the surface or close to the surface, but does not break the surface or close to the surface, but does not break the surface or close to the surface, but does not break the surface or close to the surface, but does not break the surface during the growing season. The tree species on the segles of the swale are generally not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation, hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on soil map units  Vegetation, c. – How often is the information on typical vegetation on typical vegetation on typical vegetation in the vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a large representation on the vegetation in						
TR 5 99 General would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 100 4 Forest and the very region have voted to include the indicator, with Secondary status.  Working groups in almost every region have voted to include the indicator, with Secondary status.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf little is not a very region have voted to include the indicator, with Secondary status.  Working groups in almost every region have voted to include the indicator, with Secondary status.  The following stuation is expected, and abundance of the presence of the presence of man-made structures or other features.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  The w					1	
TR 5 99 General would delete it.  The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 100 4 relevant/accurate?  Coften.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  Cannot directly access the web site with the url listed  This section uses Recommended Procedure (page 113 and 116)  LABG 5 102 General  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 and 104) seems somewhat illogical. Step 2 (2) (b) recommends using a						Working groups in almost every region have voted to
The following situation is not covered: non-vegetated swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland by Corps/EPA definition.  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation, on the contradiction on soil map units relevant/accurate?  LABG 5 100 4 relevant/accurate?  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url inse are relict?  C. LABG 5 101 c listed  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a region in a reference site the actual hydrologic regime is known. We know the reference site is a	TR	5	99	General	1	
swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic.  According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General Vegetation, consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a			- 00	Contoral	Would dolote it.	morado trio maiotator, war occorridary statue.
swales in relatively dense forest cover. An abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic.  According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General Vegetation, consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a						
abundance of undisturbed leaf litter is often present in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  c. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  The web link works today (3-14-2008).  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a					The following situation is not covered: non-vegetated	
in the swale. Soils are undoubtedly hydric. There is water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions? Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 100 4 Provided that water marks or drift characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  LABG 5 101 C Cannot directly access the web site with the urlisted  LABG 5 102 General listed  LABG 5 102 General vegetation on soil map units relevant/accurate?  LABG 5 103 C General vegetation on soil map units relevant/accurate?  LABG 5 104 Vegetation on soil map units relevant/accurate?  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116) use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a regime is known. We know the reference site is a					swales in relatively dense forest cover. An	
water to the surface or close to the surface, but does not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units relevant/accurate?  Vegetation on soil map units relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the urlisted  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a						
not break the surface during the growing season. The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. — How often is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a					1	
The tree species on the edges of the swale are generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  The web link works today (3-14-2008).  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a					l · · · · · · · · · · · · · · · · · · ·	
generally not hydrophytic species (FACU) and overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a						
overall the plant community is not hydrophytic. According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  LABG 5 101 c listed  The web link works today (3-14-2008).  The web link works today (3-14-2008).  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a						
According to the Cowardin classification this would be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).						
be a PFO wetland, but with vegetation sampling restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a					1	
restricted to the swale, there is no vegetation; hence the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  LABG 5 99 General parameters/features are not met. Any suggestions?  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  LABG 5 101 c Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a						
the contradiction. Plus all three wetland parameters/features are not met. Any suggestions?  Vegetation, c. — How often is the information on typical vegetation on soil map units relevant/accurate?  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  A. — how is it determined that water marks or drift lines are relict?  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  If the area is never vegetated, it is not a wetland by Corps/EPA definition.  If the area is never vegetated, it is not a wetland by Corps/EPA definition.  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a						
LABG 5 99 General parameters/features are not met. Any suggestions? Corps/EPA definition.  Vegetation, c. – How often is the information on typical vegetation on soil map units  LABG 5 100 4 relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  LABG 5 101 c Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116) use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  Corpos/EPA definition.  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a						If the area is never vegetated, it is not a wetland by
typical vegetation on soil map units relevant/accurate?  Often.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  typical vegetation on soil map units  Often.  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a	LABG	5	99	General		
LABG 5 100 4 relevant/accurate? Often.  The delineator can make this judgment based on site characteristics and any other available information. Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  LABG 5 101 c listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a regime is known. We know the reference site is a						
The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  C. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  The delineator can make this judgment based on site characteristics and any other available information.  Often the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a						
characteristics and any other available information.  Joseph Laber S 101	LABG	5	100	4	relevant/accurate'?	Utten.
characteristics and any other available information.  Joseph Laber S 101						The delineator can make this judgment based on site
a. – how is it determined that water marks or drift LABG 5 101  C Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116) LABG 5 102  General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  Gotten the change in hydrology is obvious because of the presence of man-made structures or other features.  The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a						
LABG 5 101 lines are relict? presence of man-made structures or other features.  c. Cannot directly access the web site with the url listed  The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a					a. – how is it determined that water marks or drift	
LABG 5 101 c Cannot directly access the web site with the url listed The web link works today (3-14-2008).  This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116) use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  Cannot directly access the web site with the url The web link works today (3-14-2008).  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a	LABG	5	101			
This section uses Recommended Procedure (page 102) and the other sections (pages 113 and 116)  LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a						
LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a	LABG	5	101	С		The web link works today (3-14-2008).
LABG 5 102 General use Procedure. Provide consistency.  Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a  We agree. We will revise the heading for consistency.  Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a	1					
Part of the guidance on evaluating vegetation in droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a	1.450	_	400		, , , , , , , , , , , , , , , , , , , ,	Mo ograe Mo will revise the headly (
droughts (pages 103 – 104) seems somewhat illogical. Step 2 (2) (b) recommends using a Correct. But on a reference site the actual hydrologic regime is known. We know the reference site is a	LABG	5	102	General		vve agree. vve will revise the heading for consistency.
illogical. Step 2 (2) (b) recommends using a regime is known. We know the reference site is a					irait oi tile uulualice oli evaluating vegetation in	1
						Correct But on a reference site the actual hydrologic
103 - 104					droughts (pages 103 – 104) seems somewhat	
103 - 104					droughts (pages 103 – 104) seems somewhat	
					droughts (pages 103 – 104) seems somewhat	

LABG 5 103 2.a.—Is the list of wetland types comprehensive or a general list, which does not included all wetland lynges?  2.a. (1)(i) = sastly growing season satial very reports, remotely sensed data, stc. do not provide plant community. Information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community. Information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community. Information at a level of detail sus-insulate to section.  LABG 5 103 2.a. (2)(a) — much of the suggested off-size data does not provide plant community. Information at does not provide any guest removing the reference.  2.a. (2)(a) — much of the suggested off-size data does not provide any guest removing the reference.  2.b. — The following sentence: "Limited grazing does not necessarily affect the outcome of a hydrophytic vegetation decision its too vaque and does not provide any guidence, especially when the first sentence states that both short- and long-terminity and the support of the provide plant community. Information at a monoring thin sentence.  LABG 5 104 1 removing this sentence.  2.b. (2) (2) — However, the site may be too disturbed for original vegetation to come back quality it ever.  2.b. (3) — previous used the word offsite was hybphenated as off-site. Also see previous comment on the community of the providence of the word offsite was hybphenated and off-site. Also see previous comment of the community of the providence of the word offsite was hybphenated and off-site. Also see previous comment of the providence of the word offsite was hybphenated and off-site. Also see previous comment of the providence of the word offsite was hybphenated and off-site. Also see previous comment of the providence of the word offsite was hybphenated and off-site.				1	la	
LABG   S   103   2   2   2   2   2   2   2   2   2						
2. a. (1)(-) - early growing season aerial photography, NMI maps, soil survey reports, remotely sensed data, etc. do not provide plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community. It is supplied to detail sufficient to determine the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence/absence of a hydrophytic plant community. It is upon the presence absence on the presence absence on the presence absence on the presence absence on presence absenc		_	400			
photography, NWI maps, soil survey reports, remotely sensed data, etc. do not provide plant community information at a level of defail sufficient to determine the presence/absence of a hydrophytic plant community. The last sentence is also similar to sometimes not detailed enough, but they should still be sociologically and the suggested off-site data and several community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community in the presence and a level of detail sufficient to determine the presence/absence of a hydrophytic plant community information at a level of detail sufficient to determine the inst stenders detailed in the sufficient plant of the presence and a hydrophytic vegetation in surface and does not provide any guidance, especially when the first stenders are supplicable. The delineator must decide whether default and the presence are applicable. The delineator must decide whether default and the presence are applicable. The delineator must decide whether default and the presence are applicable. The delineator must decide whether default and the presence are applicable. The delineator must decide whether decident and the presence are applicable. The delineator must decide the presence applicable in the supplement.  LABG 5 104	LABG	5	103	2		wetland types do you suggest?
remotely sensed data, etc. do not provide plant community information at level of detail sufficient to determine the presence/absence of a hydrophytic plant community. The last sentence is also similar to 2. a. (1)(a). I suggest removing or rewording this section.  LABG 5 103  LABG 5 104  LABG 5 105  LABG 5 104  LABG 6 104  LABG 7 104  LABG 7 104  LABG 7 104  LABG 7 104  LABG 8 104  LABG 9 105  LABG						
Community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community. The last sentence is also similar to 2. a. (1/la). I suggest removing or rewording this section.    2. a. (2/a) — much of the suggested off-site data does not provide plant community information at a level of detail sufficient to determine the presence/absence of a hydrophytic plant community. See the previous response.    2. b The following sentence: "Limited grazing does not reverse this interference.   2. b The following sentence: "Limited grazing does not reverse shifts in vegetation." See the previous response.    2. b The following sentence: "Limited grazing does not reverse shifts in vegetation." I suggest removing this sentence.   2. b The following sentence: "Limited grazing does not reverse shifts in vegetation." I suggest remove the first sentence states that both short-and ingular the ingular sentence states that both short-and ingular the provider of the previous response.    LABG   5   104   1 removing this sentence.   2. b. (2) - However, the site may be too disturbed for 6 original vegetation to come back quickly if ever.   2. b. (3) - Previous use of the word offsite was hyphenated as off-site. Also see previous comment of 6 original vegetation to come back quickly if ever.   LABG   5   104   2. b. (3) - This implies that if there are hydric soil and vettand hydrology indicators, then the area is a veltards? A two parameter approach?   R						
to determine the presence/absence of a hydrophytic by land offsite sources of information are section.  LABG 5 103 section.  2. a. (1)(a). I suggest removing or rewording this explored as one step in addressing a difficult-to-identify wedland situation.  2. a. (2)(a) - much of the suggested off-side of a description of a tevel of detail sufficient to determine the presence/absence of a hydrophytic plant community. I suggest removing this reference.  2. b The following sentence: "Limited grazing does not necessarily affect the outcome of a hydrophytic vegetation decision" is too vague and does not provide any guidance; especially when the first sentence states that both short and fong-term grazing can cause shifts in vegetation. I suggest termoving this sentence.  LABG 5 104 removing this sentence.  LABG 5 104 sentence are sent as the bit short and fong-term grazing can cause shifts in vegetation. I suggest termoving this sentence states that both short and fong-term grazing can cause shifts in vegetation to come back quickly if ever.  2. b. (2) - (2) - theverent, the site may be too disturbed for supplication to substantial on surface and phydrology indicators, then the area is a veglander? A two parameter approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation is section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation is section on page 105 in front of the Specific Problematic Vegetation is section on page 105 in front of the Specific Problematic Vegetation is section on page 105 in front of the Specific Problematic Vegetation is section on page 105 in front of the Specific Problematic Vegetation is se						
plant community. The last sentence is also similar to   2. a. (1/a). I suggest removing or rewording this   section.					1	
LABG 5 103 section.  2. a. (1)(a) - much of the suggested off-site data does not provide plant community information at a level of detail sufficient to detarmine the presence/absence of a hydrophytic plant community. Is suggest removing this reference.  2. b The following sentence: "Limited grazing does not necessarily affect the outcome of a hydrophytic vegetation decision" is too vague and does not provide any guidance, especially when the first sentence states that both short- and long-term grazing can cause shrifts in vegetation. I suggest removing this sentence.  LABG 5 104 1 removing this sentence.  LABG 5 104 2 removing this sentence.  LABG 5 104 3 removing this sentence.  LABG 5 104 4 removing this sentence.  LABG 5 104 6 contained the provide any publication is come beek quickly if ever.  2 b, (2) - However, the site may be too disturbed for object the very difficult to come beek quickly if ever.  2 b, (3) - previous use of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104 9 remove the sentence of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104 wetlands? A two parameter approach?  I think I would place the General Approaches to Problematic Pytorophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation on page 105 in front of the Specific Problematic Vegetation section on page 105 in the definition of a hydrophytic Vegetation and page 105 in the problematic Vegetation on page 105 in the vegetation of the problematic Vegetation on page 105 in the page 105 in the vegetation of the page 105 in the vegetation of the vegetation on page 105 in the vegetation of the vegetation of the vegetation on page 105 in the vegetation of th						
LABG   5   103   Section.						,
LABG 5 104 2. b. (2) — However, the site may be too disturbed for 6 original vegetation to come back quickly if ever.  LABG 5 104 2. b. (2) — However, the site may be too disturbed for 6 original vegetation to come back quickly if ever.  2. b. (3) — Provice shelf the wildows of the standard procedures are approach?  LABG 5 104 6. (2, b. (3) — Frover original vegetation to come back quickly if ever.  2. b. (3) — Provice use of the wildows or the forest shelf or the standard procedures are applicable. The delineator must decide whether additional consideration is warranted.  LABG 5 104 6. (2, b. (3) — Provice use of the word offsite was hyphenated as off-site. Also see previous comment or 2. a. (1)(c).  LABG 5 104 7		_	400			, , , , , , , , , , , , , , , , , , , ,
LABG   5   103   Laggest removing his neference: *Limited grazing does not provide any plate not performed in the presence/absence of a hydrophytic plant community.	LABG	5	103			wetiand situation.
LABG   5   103   Presence/absence of a hydrophytic plant community.   suggest removing this reference.   See the previous response.						
LABG 5 103   suggest removing this reference.   2						
LABG 5 103   suggest removing this reference.						
2. b. — The following sentence: "Limited grazing does not necessarily affect the outcome of a hydrophytic vegetation decision" is too vague and does not provide any guidance: especially when the first sentence states that both short- and long-term grazing can cause shifts in vegetation. I suggest the provided and sentence states that both short- and long-term grazing can cause shifts in vegetation. I suggest and provided and state of the provided and sta	LARC	5	102		, , , , , , , , , , , , , , , , , , , ,	See the previous response
does not necessarily affect the outcome of a hydrophytic vegetation decision is too vaque and does not provide any guidance, especially when the first sentence states that both short- and long-tentile procedure. It removing this sentence states that both short- and long-tentile procedure is applicable. The delineator must decide whether additional consideration is warranted.  2. b. (2) – However, the site may be too disturbed for 6 original vegetation to come back guickly if ever. 2. b. (3) – previous use of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104	LADG	5	103			dee the previous response.
hydrophytic vegetation decision is too vague and does not provide any guidance; especially when the first sentence states that both short- and long-term grazing can cause shifts in vegetation. I suggest removing this sentence.  LABG 5 104 2 b. (2) – However, the site may be too disturbed for 6 original vegetation to come back quickly if ever.  LABG 5 104 2 c. (3) – revious use of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104 2 c. (3) – This implies that if there are hydric soil and welland hydrology indicators, then the area is a wellands? A two parameter approach?  LABG 5 105 105 105 105 105 105 105 105 105 1						
does not provide any guidance; especially when the first sentence states that both short- and long-term grazing can cause shifts in vegetation. I suggest removing this sentence.  2. b. (2) — However, the site may be too disturbed for doriginal vegetation to come back quickly if ever.  2. b. (3) — Previous use of the word offsite was hybeneated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104 — This implies that if there are hydric soil and wetland hydrology indicators, then the area is a wetlandor. A two parameter approach?  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 103.  LABG 5 105 — 2. c. (4) — same as 2. b. (3) — We will use "offsite" consistently.  LABG 5 105 — 2. c. (6) — same as 2. b. (4) — See the response in row 259.  LABG 5 105 — 2. d. (2) — same as 2. b. (3) — We will use "offsite" consistently.  LABG 5 105 — 2. d. (2) — same as 2. b. (3) — We will use "offsite" consistently.  LABG 5 105 — 2. d. (2) — same as 2. b. (4) — See the response in row 259.  LABG 6 105 — 2. d. (2) — same as 2. b. (3) — We will use "offsite" consistently.  LABG 7 105 — 2. d. (3) — same as 2. b. (4) — See the response in row 259.  LABG 6 105 — 2. d. (2) — same as 2. b. (4) — See the response in row 256.  LABG 7 105 — 2. d. (3) — same as 2. b. (4) — See the response in row 256.  LABG 8 105 — 105 — 2. d. (2) — same as 2. b. (4) — See the response in row 256.  LABG 9 105 — 105 — 2. d. (3) — same as 2. b. (4) — See the response in row 256.  LABG 105 — 106 —						We do not wish to imply that light to moderate grazing
LABG   5   104						
LABG 5 104 removing this sentence.  LABG 5 104 forming this sentence.  LABG 5 105 forming this sentence.  LABG 6 105 forming this sentence.  LABG 7 105 forming this sentence.  LABG 8 105 forming this sentence.  LABG 105 forming this						
LABG 5 104 1 removing this sentence. additional consideration is warranted.  2. b. (2) – However, the site may be too disturbed for 6 original vegetation to come back quickly if ever.  2. b. (3) – previous use of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104						
LABG 5 104	LABG	5	104	1		
LABG 5 104 6 original vegetation to come back quickly if ever.  LABG 5 104 2. b. (3) — previous use of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104 2. b. (4) — This implies that if there are hydric soil and wetland hydrology indicators, then the area is a wetlands? A two parameter approach?  LABG 5 104 In hink I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103.  LABG 5 105 2. c. (4) = Same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (5) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (4) = Same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (4) = Same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (4) = Same as 2. b. (4) See the response in row 259.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 259.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 256.  LABG 5 106 1 In ever have seen either beech or eastern red cedar dominate wetlands. Is this true? Beach sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more 1 water tolerant and can be identified by buds.  LABG 5 106 1 In ever have seen either beech or eastern red cedar dominate wetlands. In this true? Beach sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is		-		·	<u> </u>	
LABG 5 104 6 original vegetation to come back quickly if ever.  LABG 5 104 2. b. (3) — previous use of the word offsite was hyphenated as off-site. Also see previous comment on 2. a. (1)(c).  LABG 5 104 2. b. (4) — This implies that if there are hydric soil and wetland hydrology indicators, then the area is a wetlands? A two parameter approach?  LABG 5 104 In hink I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103.  LABG 5 105 2. c. (4) = Same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (5) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (4) = Same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (4) = Same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (4) = Same as 2. b. (4) See the response in row 259.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 259.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) = same as 2. b. (4) See the response in row 256.  LABG 5 106 1 In ever have seen either beech or eastern red cedar dominate wetlands. Is this true? Beach sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more 1 water tolerant and can be identified by buds.  LABG 5 106 1 In ever have seen either beech or eastern red cedar dominate wetlands. In this true? Beach sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is					2. b. (2) – However, the site may be too disturbed for	
LABG 5 104 on 2. a. (1)(c).  We will use "offsite" consistently.  If the site is heavily impacted by grazing (or any other disturbance) and the undisturbed condition cannot be determined, then the wetland determination must be based on the other two factors. This approach is used in the Corps Manual for Atypical Situations and is simply repeated in this supplement.  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105.  LABG 5 105 2. c. (4) – This implies that if there are hydric soil and wetland hydrology indicators. then the area is a wetlands? A two parameter approach?  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103.  LABG 5 105 2. c. (4) – same as 2. b. (3)  2. d. (-) same as 2. b. (3)  2. d. (-) same as 2. b. (4)  2. d the sentence: "Limited disturbance does not necessarily affectthe plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it 2. d. (2) - same as 2. b. (3)  LABG 5 105 2. d. (3) – same as 2. b. (4)  We will use "offsite" consistently.  See the response in row 256.  We will use "offsite" consistently.  See the response in row 256.  We will use "offsite" consistently.  See the response in row 256.  What is an example of unpublished scientific 4 interature as mentioned on page 106?  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Manyland is more water tolerant and can be identified by buds.  If found the soil section on page 113 to be somewhat the following	LABG	5	104	6	original vegetation to come back quickly if ever.	True, but this does not invalidate the option.
LABG 5 104 on 2. a. (1)(c). We will use "offsite" consistently.  If the site is heavily impacted by grazing (or any other disturbance) and the undisturbed condition cannot be determined, then the wetland determination must be based on the other two factors. This approach is used in the Corps Manufor for Atypical Situations and is simply repeated in this supplement.  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 103 in front of the Specific Problematic Vegetation section on page 104 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation in Capacity of Vegetation Specific Problematic Vegetation Specific Problematic Vegetation Specific						
LABG 5 105 2. c. (4) – This implies that if there are hydric soil and wetland hydrology indicators, then the area is a wetlands? A two parameter approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105. 2. c. (4) – same as 2. b. (3)  LABG 5 105 2. c. (4) – same as 2. b. (4)  See the response in row 259.  LABG 5 105 2. d. (2) – same as 2. b. (4)  See the response in row 259.  LABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (4)  See the response in row 259.  See the response in row 256.  We will use "offsite" consistently.  See the response in row 256.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil unless indicators are present. This procedure provides options that allow the delineator to make a decision in cases where indicators are present. This case of recently developed wetlands is covered						
disturbance) and the undisturbed condition cannot be determined, then the wetland determination must be based on the other two factors. This approach is used in the Corps Manual for Atypical Situations and is simply repeated in this supplement.  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105.  LABG 5 105 2. c. (4) – Same as 2. b. (3)  LABG 5 105 2. c. (5) – same as 2. b. (4)  See the response in row 259.  ABG 5 105 2. d. (2) – same as 2. b. (4)  See the response in row 259.  ABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (4)  See the response in row 259.  ABG 5 105 2. d. (2) – same as 2. b. (3)  We will use 'offsite' consistently.  See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more of water tolerant and can be identified by buds.  TR 5 106 4 literature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil unless indicators are present. I bill procedure provides options that allow the delineator to indicators? This especially would be true of new  Many times we do not know initially that it meets the of indicators? This especially would be true of new  The coronistency, we use the existing format in all supplements.  We will use 'offsite' consistently.  See the response in row 256.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished data sets, etc.	LABG	5	104		on 2. a. (1)(c).	We will use "offsite" consistently.
disturbance) and the undisturbed condition cannot be determined, then the wetland determination must be based on the other two factors. This approach is used in the Corps Manual for Atypical Situations and is simply repeated in this supplement.  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105.  LABG 5 105 2. c. (4) – Same as 2. b. (3)  LABG 5 105 2. c. (5) – same as 2. b. (4)  See the response in row 259.  ABG 5 105 2. d. (2) – same as 2. b. (4)  See the response in row 259.  ABG 5 105 2. d. (2) – same as 2. b. (3)  LABG 5 105 2. d. (2) – same as 2. b. (4)  See the response in row 259.  ABG 5 105 2. d. (2) – same as 2. b. (3)  We will use 'offsite' consistently.  See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more of water tolerant and can be identified by buds.  TR 5 106 4 literature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil unless indicators are present. I bill procedure provides options that allow the delineator to indicators? This especially would be true of new  Many times we do not know initially that it meets the of indicators? This especially would be true of new  The coronistency, we use the existing format in all supplements.  We will use 'offsite' consistently.  See the response in row 256.  The working group developed this list of examples based on experience in various parts of the region.  The working group developed this list of examples based on experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished data sets, etc.						
determined, then the wetland determination must be based on the other two factors. This approach is used in the Corps Manual for Atypical Situations and is simply repeated in this supplement.  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103.  LABG 5 105						
LABG 5 104						1
and wetland hydrology indicators, then the area is a wetlands? A two parameter approach?  I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103.  LABG 5 105 2. c. (4) — same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. — the sentence: "Limited disturbance does not necessarily affectthe plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it LABG 5 105 2. d. (2) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (2) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) — same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) — same as 2. b. (4) See the response in row 256.  LABG 5 106 2. d. (2) — same as 2. b. (3) The working group developed this list of examples based on experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
LABG   5   104						
I think I would place the General Approaches to Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation section on page 103.    LABG   5   105   2. c. (4) - same as 2. b. (3)   We will use "offsite" consistently.		_	404		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Problematic Hydrophytic Vegetation section on page 105 in front of the Specific Problematic Vegetation supplements.  LABG 5 105 2. c. (4) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. – the sentence: "Limited disturbance does not necessarily affectthe plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (2) – same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  I never have seen either beech or eastern red cedar dominate wellands. Is this true? Beech sometimes is found on micro sites in weltands. One subspecies of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 4 literature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following	LABG	5	104			repeated in this supplement.
TR 5 105   105 in front of the Specific Problematic Vegetation section on page 103.   We will use "offsite" consistency, we use the existing format in all supplements.   We will use "offsite" consistently.						
TR 5 105 section on page 103. supplements.  LABG 5 105 2. c. (4) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. c. (5) – same as 2. b. (4) See the response in row 259.  2. d. – the sentence: "Limited disturbance does not necessarily affectthe plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 1 Iterature as mentioned on page 106?  TR 5 106 4 Iterature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						For consistancy, we use the existing format in all
LABG 5 105 2. c. (4) – same as 2. b. (3) We will use "offsite" consistently.  2. d. – the sentence: "Limited disturbance does not necessarily affectthe plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (2) – same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more  TR 5 106 1 water tolerant and can be identified by buds.  TR 5 106 2 1 water tolerant and can be identified by buds.  TR 5 106 3 4 literature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following	TD	_	105		,	l
LABG 5 105 2. c. (5) – same as 2. b. (4) See the response in row 259.  2. d. – the sentence: "Limited disturbance does not necessarily affect the plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it See the response in row 256.  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more 1 water tolerant and can be identified by buds.  The working group developed this list of examples based on experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following					1 0	
2. d. – the sentence: "Limited disturbance does not necessarily affectthe plant community is or is not hydrophytic" is too vague and does not provide any value to this paragraph. I suggest removing it  LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 1 water tolerant and can be identified by buds.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
LABG   5   105   105   2. d. (2) – same as 2. b. (3)   We will use "offsite" consistently.	2,120					200 410 100001100 1111011 2001
LABG 5 105					2. d. – the sentence: "Limited disturbance does not	
LABG 5 105					necessarily affectthe plant community is or is	
LABG 5 105 any value to this paragraph. I suggest removing it LABG 5 105 2. d. (2) – same as 2. b. (3) We will use "offsite" consistently.  LABG 5 105 2. d. (3) – same as 2. b. (4) See the response in row 256.  I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 1 water tolerant and can be identified by buds.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
LABG 5 105	LABG	5	105			
I never have seen either beech or eastern red cedar dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 1 water tolerant and can be identified by buds.  TR 5 106 4 literature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						We will use "offsite" consistently.
dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 1 water tolerant and can be identified by buds.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following	LABG	5	105		2. d. (3) – same as 2. b. (4)	See the response in row 256.
dominate wetlands. Is this true? Beech sometimes is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more water tolerant and can be identified by buds.  TR 5 106 1 water tolerant and can be identified by buds.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under Procedure that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
is found on micro sites in wetlands. One subspecies of beech found in and around Maryland is more  TR 5 106 1 water tolerant and can be identified by buds.  The working group developed this list of examples based on experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
TR 5 106 1 water tolerant and can be identified by buds. The working group developed this list of examples based on experience in various parts of the region. Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 106? If ound the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
TR 5 106 1 water tolerant and can be identified by buds. On experience in various parts of the region.  Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following					·	The working group developed this list of success to
Examples might include environmental impact statements, government gray literature, special area management plans, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following	TD	5	106	4	1	1
TR 5 106 What is an example of unpublished scientific  4 literature as mentioned on page 106?  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following	I IX	J	100	'	water tolerant and can be identified by buds.	
TR 5 106 What is an example of unpublished scientific discretations, unpublished theses and dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						, , ,
TR 5 106 4 literature as mentioned on page 106? dissertations, unpublished data sets, etc.  I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following					What is an example of unpublished scientific	
I found the soil section on page 113 to be somewhat confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following	TR	5	106	4		
confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following				·		, . ,
confusing. The statement under <b>Procedure</b> that if the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following					I found the soil section on page 113 to be somewhat	
the soil meets the definition of a hydric soil but does not exhibit any indicators can be identified by the following						
not exhibit any indicators can be identified by the following						Many times we do not know initially that it meets the
followinglf a soil meets the definition of a hydric This procedure provides options that allow the delineator soil, why do we have to be concerned with a lack of indicators? This especially would be true of new The case of recently developed wetlands is covered					1	
indicators? This especially would be true of new					followingIf a soil meets the definition of a hydric	This procedure provides options that allow the delineator
TR   5   106   General   wetlands such as mitigation sites or beaver ponds.   under item 4b(i).						· ·
•	TR	5	106	General	wetlands such as mitigation sites or beaver ponds.	under item 4b(i).

				If a site is dominated by a non-wetland (non-	
				hydrophytic) plant community, you can not just	
				readily rely on the presence of hydrology and hydric	
				soils to determine that it is a wetland; this infers a	
				two factor approach. This paragraph starts by	
				stating to verify that the subject area has prolonged	
				inundation/saturation and proceeds to suggest a	
				couple of site visits. The presence of hydrology may	
				or may not be the current norm and more	
				documentation needs to be provided to demonstrate	We agree with this comment. This procedure is
				whether 'wetland hydrology' is, and will continue to	intended to provide the additional information to
LABG	5	106	4	, 3,	•
LADG	5	100	- 1	be, present.	determine whether the community is hydrophytic.
				2 American hally (Hay anaga) hladkhayy	For this list of examples, we chose species that are FACU throughout the region (or wherever they occur).
				3. – American holly ( <i>Ilex opaca</i> ), blackhaw	
				(Viburnum prunifolium) and serrate-leaf blackberry	Ilex opaca is FAC(-) in Region 2 (Southeast) and, thus,
				(Rubus argutus) are also examples of FACU species	
LABG	5	106	1	that can be dominant in wetlands.	adding the other two species.
				3. a. – is it practical to suggest that wet conditions	
				will occur on the site at least every other year,	In this supplement, we use the words "every other year,"
				especially when hydrology needs to be present 5 out	"in most years," "5 out of 10 years," and "50%
				of 10 years, which may not necessarily be every	probability" to mean the same thing. All must be
LABG	5	106	2	other year?	evaluated over a long-term record (at least 30 years).
				3. b. reference sites - will the data that is kept on file	
				in the district or field office be available for public	
				use? Also how will the public be informed that this	
LABG	5	106		data exits.	We do not know.
JG	5	107		Wasn't this and A7 covered in Ch. 3? Why repeat?	More detail is presented in Chapter 5.
				, 1	That is unlikely, particularly in this region where ponded
				Seasonally Ponded Soils - Could it be that the	areas tend to persist for long periods. However, such an
				hydrology is not present long enough to be	area would not be identified as a wetland unless all the
				considered wetland hydrology and result in the	requirements of the procedure starting on page 113 were
LABG	5	107	2	formation of hydric soils.	met.
LADG	J	107	3	Red Parent Material – There is the potential for	mer.
				Triassic red parent material to wash into the Coastal	We will revise the wording to clarify that red parent
				Plain. Therefore Virginia should be included in this	materials occur in scattered locations throughout the
LABG	5	107	5	section.	region.
LADO		107		Section.	In this problem soil situation, "thin" means generally 2
				Define "thin"? The mucky-peat surface textures are	inches or less. Thicker organic deposits in interdunal
				too thin to qualify for indicator A7 or S1, and the	swales are likely to contain at least some muck and
				sands beneath do not qualify for any approved	
10	_	440		, , , , , , , , , , , , , , , , , , , ,	would meet indicators A9 or A10. We will clarify the
JG	5	110		indicator.	wording.
				In conducación en los conducacións en to	
				In sandy soils, on low-angle slopes adjacent to	
				pocosins or sandy ponded depressions, the spodic	
				horizon may occur directly underneath the A horizon.	
				Without careful and experienced field observation or	
				a lab analysis, the spodic may be mistaken for an A	
				horizon. The absence of iron and an E horizon	
				between means the soil will not qualify for indicators	It is not clear from this comment and the additional
				S5, S6, S7, or S8, and will only qualify for S9 if the	materials provided by the reviewer why these soils would
				spodic is value < 4 and chroma < 1. I have	not meet one of the existing indicators or what change is
				provided a pdf showing this situation. In such cases	being suggested to the supplement. In any case, this
				where no E is present between an A and a spodic,	issue should be communicated to the NTCHS for their
JG	5	111	1	we need a new indicator.	consideration.
	-				
				add -Compacted soil horizons become anaerobic	
				more rapidly than other soils because of their lower	
				amount of porosity and disconnected pores. These	
				soils develop redoximorphic features more rapidly	
				than other soils. These may be found under forest	We will add the example of compacted soils to the
				hauls roads or loading yards, under or in tractor plow	paragraph addressing development of hydric soil
1	5	112	4	pans or vehicle traffic in wet soils.	
JG				idalis di vellicie lialiic ili wel SUIS.	features in potentially non-hydric soils.

-				T	
LABG	5	114		4. a. – For the problematic hydric soils listed on page 114, in Chapter 3, the applicable subregions states that these indicators are also applicable in <a href="mailto:problem_soils">problem soils</a> . More emphasis needs to be placed on this connection. Suggestion: also applicable to <a href="problematic hydric soils">problematic hydric soils</a> (Chapter 5). However, there is added confusion with the section on page 64 – Hydric Soil Indicators for Problem Soils. Clarification and consistency of terms, problem soils versus problematic hydric soils, would help the reader.	The introduction on page 64 (Chapter 3) already says that these indicators for problem hydric soils must be used in the procedure given in Chapter 5. It also specifically references the section on "Problematic Hydric Soils." Thus the connection seems clear. However, we will reconsider the wording.
LABG	5	114		4. b. – what is the difference between problematic soil situations and problematic hydric soils? Is this similar to problem area and atypical wetlands?	We think the wording is clear in context.
LABG	5	114		b. ii. – seasonally ponded soils may not be wet long enough to be considered a hydric soil.	The reviewer's statement is true by itself. However, the procedure is designed to identify those soils that are wet long enough to be considered hydric even though they lack indicators.
LABG	5	114		c. – any suggestions on where this occurs and how often would be beneficial to the reader.	We have no specific examples.
LABG	5	117	1	- is the list of geomorphic positions comprehensive or could there be others? Please clarify.	We will revise and clarify this list. It is not intended to be exhaustive. However, an adequate rationale is needed to accept additional landscape settings.
LABG	5	117	3	3. a. – Site visits during the dry season, third paragraph – the sentence: "At such times, the wetland determination should be based on the preponderance of evidence that the site is or is not wetland", is too vague. What constitutes a preponderance of evidence?	What is needed to conclude that wetland hydrology is present is spelled out further along in the same paragraph.
LABG	5	118	4	3. d., page 119 - will the data that is kept on file in the district or field office be available for public use? Also how will the public be informed that this data exits?	We do not know.
LABG	J	110	4	3. e., page 119 – "The seven hydrology tools are	We do not know.
LABG	5			tested over and large areas and with numerous wetland species, I suggest leaving it out for now. If it	
TR	5	120	2	proves a good tool, it can be added later.  3. g., page 120/121 – pretty thorough discussion on Mycorrhizal Mantles. However, the information seems to be based on one study. Second paragraph – what does "that year" refer to? How accepted is this information. Caution should be exercised when using this approach to determine if	elsewhere.  See the previous response. "That year" is the same year that mantles are observed. Adequate cautions are given for people to try out this method in other areas and with
LABG	5	120	2	wetland hydrology is present.	other species.
JG	ref	124		add - Burdt, A. C., J.M. Galbraith, and W.L. Daniels. 2005. Season Length Indicators and Land-Use Effects in Southeast Virginia Wet Flats. Soil Sci. Soc. Am. J. 69:1551–1558	We will make the recommended change.